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PCB WASTE STORAGE SITE INSPECTION AND ASSESSMENT

MARCH 1989

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PCB waste storage site
inspection and assessment /
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PCB WASTE STORAGE SITE INSPECTION AND ASSESSMENT

**A REPORT BY
M. M. DILLON LIMITED
FOR
ONTARIO MINISTRY
OF THE ENVIRONMENT**

MARCH 1989

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**INSPECTION AND ASSESSMENT OF
ONTARIO PCB WASTE STORAGE SITES
STORAGE SITE ASSESSMENT SUMMARY**

1. INTRODUCTION

As a result of a fire at a PCB storage facility in St. Basile-le-Grand in Quebec, the Federal Minister of the Environment and the Canadian Council of Resource and Environment Ministers (CCREM) raised a concern over the safe and secure storage of wastes. CCREM determined that Canadian PCB waste storage sites should be inspected and assessed to evaluate their security.

The Ontario Minister of the Environment, therefore, instigated the inspection of all PCB storage sites in Ontario. Under his direct orders, all major sites containing more than 1,000 litres of PCB; and sensitive sites, those located at food industries, hospitals and schools, were inspected over the period 19-30 September 1988. All minor sites, those storing less than 1000 litres of liquid PCB or PCB solids, have also been inspected. The minor sites were inspected over the period 19 September to 14 October 1988.

In Ontario, the Ministry of the Environment (MOE) has directed that PCB wastes be stored in a location at or near the point where the PCBs were in service. By doing this the transportation of PCBs was minimized and no large quantities resulting from the consolidation of PCB wastes have been stored at a single location in Ontario. As a result of this directive, PCB wastes have been stored at 984 sites in Ontario. All of these sites were inspected by staff from M.M. Dillon Limited or the MOE.

In the following sections, an assessment summary of the surveyed sites is presented. This assessment summary accompanies the 'Inspection Status Report' dated 14 October 1988. The 'inspection status' will be reviewed and updated briefly in the following section. A description of the site assessment methodology and a summary of the assessment findings will follow.

2. INSPECTION STATUS

The status of the PCB storage site inspections is discussed below. Detailed are:

- the total number of sites inspected;
- the regional distribution of major, minor and sensitive sites;
- the names and locations of the PCB storage sites.

All PCB storage sites were identified for inspection by MOE Region and District Office staff. The sites were identified primarily from the MOE Regulation 11/82 database of PCB storage sites. The database information was updated and verified by MOE Regional staff and is considered to be current as at 30 September 1988. This updated information was provided to M.M. Dillon Limited for compilation into a comprehensive listing. This compiled listing of sites has been verified by MOE. M.M. Dillon staff inspected the majority of major sites across the Province and minor sites in MOE Central and West Central Regions. All other inspections were done by the MOE.

The site inspections could not have been undertaken in such timely manner without the invaluable cooperation of MOE Regional staff and many of the major parties inspected, particularly Ontario Hydro and Toronto Hydro. Their assistance in identifying sites and site contact personnel and permitting rapid site access facilitated the inspection process. They should be commended for their help. The Proctor and Redfern Group were of great assistance to M.M. Dillon in the inspection of the major sites.

2.1 Sites Inspected

MOE Regional staff identified 984 PCB waste storage sites in Ontario. All of these sites were inspected by 14 October 1988.

The listing of the Ontario PCB storage sites sorted alphabetically by MOE Region is shown in Appendix A. Appendix A also identifies:

- Who inspected MOE - Ministry staff
 MMD - Dillon staff
- Type of site MJ - Major
 MS - Major Sensitive
 MN - Minor
 S - Minor Sensitive

As discussed, all major and sensitive sites were inspected by 30 September 1988 and all minor by 14 October 1988.

A breakdown of the number of sites inspected in each MOE Region is shown in Table 1.

TABLE 1
SITES INSPECTED

<u>Southwest</u>	<u>Major</u>	<u>Major Sensitive</u>	<u>Minor</u>	<u>Minor Sensitive</u>	<u>Total</u>
Southwest	62	3	85	16	166
West Central	62	5	115	27	209
Central	94	5	241	25	365
Southeast	44	1	50	9	104
Northwest	33	1	24	4	62
Northeast	<u>45</u>	<u>0</u>	<u>32</u>	<u>1</u>	<u>78</u>
Total	340	15	547	82	984

Again, the sites have been classified as:

- Major Sites - Store >1000 L PCB liquids
- Major-Sensitive - Major sites at food industries, hospitals and schools
- Minor Sites - Store <1000 L PCB liquids or store PCB solid wastes
- Minor-Sensitive - Minor sites at food industries, hospitals and schools.

It should be noted that PCB storage sites are continually being created, modified and removed from use. Therefore, the number of sites identified and inspected as shown in Table 1 and Appendix A may change in the future. For example, up to 22 of the sites inspected had their PCB wastes removed to another location or destroyed and were no longer active PCB storage sites. As such, it is imperative that the inventory of PCB waste storage sites be kept up-to-date.

3. ASSESSMENT METHODOLOGY

As discussed in Section 1, the almost 1,000 PCB storage sites in Ontario were inspected to ensure that PCBs were stored 'safely and securely'. As such, the sites have been assessed against guidelines for the safe storage of PCB wastes. These guidelines were derived from the Environment Canada 'Manual for the Management of Wastes Containing PCBs'. The Manual has been adopted by CCREM to provide a uniform guideline for PCB management across Canada. The chapters in the Manual relevant to PCB waste storage are Chapters 3 and 4. These are appended as reference in Appendix B.

The Environment Canada manual was used to develop an Inspection Report Form which was completed in the field by each site inspector. The Inspection Report Form was used by all inspectors, both MOE and Dillon. The use of the Inspection Report Form ensured that the inspectors were all looking for the same things, thus allowing for more uniform and comparable site assessments. A copy of the Inspection Report Form is shown in Appendix C.

It was found, in reviewing the Environment Canada Manual and developing the Inspection Report Form, that storage site safety and security could be defined under 10 separate components or criteria.

1. PCB Site Security

- is the storage site in a secure location so that unauthorized personnel cannot access it?

2. Compatibility of Materials Stored

- are the PCBs stored in close proximity to flammable materials which may cause a fire hazard?

3. Integrity of Primary Containment
 - is the PCB in a container or piece of equipment that is in good structural condition?
4. Integrity of Secondary Containment
 - will containment prevent a PCB spill or leak from escaping the secured PCB storage area?
5. Labelling (Identification)
 - are containers and the storage area labelled as containing PCBs?
6. Acceptability of Site Operations
 - is site neat, and containers appropriately stacked?
7. Adequacy of Inspection
 - is site inspected with adequate frequency?
8. Spill Protection
 - are spill protection procedures and equipment in place?
9. Fire Protection
 - are fire protection procedures, alarms and response materials in place?
10. Training
 - are storage site personnel trained in PCB management?

These criteria were used by Dillon to assess the 984 storage sites. They are detailed in Appendix D together with commentary used by Dillon staff in completing the assessments. It should be noted that in some aspects of PCB storage the 'Manual' does not provide as clear guidelines as may be necessary. This is primarily because the Manual

was not designed to provide guidance for the storage of very small quantities of PCB waste. As well, International Shipping Containers were not in extensive use for PCB storage when the Environment Canada Manual was written. Therefore, no special provisions for their use were detailed. As such, some area of interpretation have been developed by Dillon to apply the Manual Guidelines in these situations. These areas of interpretation are detailed in Appendix D and discussed in the following section.

4. SITE ASSESSMENT SUMMARY

In the following section, a summary of the assessments of the 984 inspected PCB storage sites is presented. It should be noted that during the inspections, 22 sites were identified as having no PCB wastes. These sites are noted in Appendix A. All sites with no waste were reported to MOE for confirmation. It was found that these sites had no waste for one of two reasons:

- the waste had recently been removed from the site either for destruction or to be consolidated at another site;
- the site had recently been opened and waste had not yet been placed into storage.

No assessments were conducted for these sites. It should also be noted that the intent of these inspections was to assess site safety and security not to confirm PCB inventory. However, in extreme cases, such as the empty sites, inventory changes were noted.

In the following sections a brief overview of the site assessments will be presented. A separate overview will be given for each of the criterion described in Section 3. In Section 4 a general statement of conclusions and recommendations on PCB site safety and security will be made. In all of these discussions, where relevant comments with respect to:

- major sites
- minor sites
- sensitive sites

will be made. No site specific assessment information will be given except in instances when aspects of the PCB storage site - as inspected - were assessed as being a potential threat to the environment or human health. There were three aspects of PCB storage that were considered to be areas of concern. These are:

- storage of PCBs in wooden buildings or containers;
- storage of PCBs adjacent to flammable solvents or other flammable liquids;
- leaks of PCB from primary containment.

If, during inspection, a storage site was identified as being of concern in any of these areas, a comment was placed in the 'Comments' column in Appendix A. Only these three areas of primary concern have been noted on a site specific basis.

4.1 PCB Site Security

PCB site security in this context is the overall security of the complex in which the PCB is stored. As sites vary considerably in their design and location, security varies as well. In virtually all cases, however, security comes down to:

- Are the PCBs stored in such a way that unauthorized personnel cannot access them easily.

The vast majority of the sites surveyed are secure. Of the secure sites the majority of PCBs were stored in locked International Shipping Containers (ISC) that have been placed

in locked fenced yards, or locked concrete or steel buildings or vaults. At major sites most PCBs were stored in locked ISCs or isolated locked, steel or concrete buildings. This is considered to be good as it isolates the PCBs from other site operations which may create fire or other hazards. By locking the buildings or ISCs it ensures that only authorized personnel can access the PCB storage site.

The minor PCB storage sites tended to be located more often in existing transformer vaults - with in-service equipment - or multi-use storage areas. This was found to be acceptable in the majority of cases.

At both major and minor sites, insecure locations were identified. These usually consisted of sites in unlocked compounds or in open areas. These sites were brought to the MOE's attention at the time of inspection. A number of small sites had PCBs stored in open areas in a working environment. There were more minor than major sites that were found to be insecure. But in both cases, the insecure sites were found to be in the minority.

There were several sites identified that had PCB stored in permanently sealed containers at abandoned sites. This is not considered an extreme concern but is not optimal either. These sites are secure but are at risk from vandalism.

4.2 Identification and Labelling

Approximately three-quarters of the sites surveyed were clearly identified as storing PCBs. In all of these sites there were labels identifying the entrance(s) to the site and on all PCB containers and/or equipment stored. Most commonly, Environment Canada PCB labels were used as identification.

In a minority of cases, PCB sites were not identified at all or were only partially identified. Some site owners expressed concern about identifying the sites - 'Identifying it will only cause problems with their employees'. It is felt, however, that it is better to identify the site as identification will aid emergency responders in the event of a problem.

4.3 Containment (Primary and Secondary)

As discussed in Section 3, primary containment is the container in which the PCB liquid or solid is held. Secondary containment, usually a concrete or metal dyke, prevents a PCB spill from escaping the controlled PCB storage area. As primary and secondary containment are closely inter-related, they will be discussed together in this assessment.

Again, at the vast majority of surveyed sites, primary and secondary containment was found to be acceptable. PCB liquids, particularly in major sites, were found in primary containment that consisted of drums, bulk storage tanks or the original equipment. In most cases, the primary containers were in good condition and appropriately positioned in the storage area. For example, drums were often strapped together and placed on pallets. It is not considered necessary or always advisable to place drums on pallets (wood may cause an unnecessary fire concern). However, if the drums are frequently being moved, pallets are advisable. PCB solids were found in drums, tarped 'lugger boxes' (for contaminated soils only), bulk in buildings and equipment. All of these storage types are considered to be

acceptable provided the containment is well maintained. In the 'Manual for the Management of Wastes Containing PCBs', stacking of drums is not advised. MOE Director's Orders have allowed the stacking of up to two layers of drums containing PCB solids. This practice is going on at the surveyed sites and is considered to be acceptable providing the stacked drums are adequately secured to prevent them toppling over.

Secondary containment usually took the form of a concrete or steel dyke. In the majority of cases, these dykes were adequately sized and sealed. Some dykes had extremely high walls, two to three feet in height. Although they contain the appropriate volume, it is felt that these high dykes make it difficult to access the storage area. It is understood that due to space constraints, it is often not possible to build a large area dyke with lower walls. However, wherever possible, larger dykes (with lower walls) should be constructed. ISCs in general had excellent containment.

Solid wastes were in some instances stored in enclosed buildings or boxes with no formal containment. Where contaminated soil or rags, etc. are stored, no formal containment should be necessary. Similarly, the Manual specifies that secondary containment should take the form of a dyke. At many minor sites, capacitors were found to be stored in drums. Often the capacitors were placed in plastic and sorbent material inside the drums. It is felt that this containment for capacitors more than meets the intent of primary and secondary containment. Therefore, no further containment dyke should be needed.

There were nine instances at both major and minor sites where PCB liquids and solids were stored in primary containment that was leaking or deteriorating. All of these sites have

been identified in Appendix A and were reported to MOE District Officers at the time of inspection. There were four or five sites where primary containment was breached and no secondary containment was present. These sites again have been identified in Appendix A. In a minority of sites, secondary containment was deteriorating with either cracks or gaps in the containment floor or walls. There were several sites where open drains were present in the containment area. Again, the worst of these sites have been noted in Appendix A.

4.4 Compatibility of Material Stored

In general, PCBs have been stored in isolated storage areas with no other wastes or materials in the storage. This is the case for the majority of sites. However, in the 'Manual for the Management of Wastes Containing PCBs', it specifies that PCB and contaminated mineral oil should be segregated. This is to minimize fire hazard in the storage area. Approximately 30% of the major sites have stored PCB in the same storage facility as contaminated oil. This is considered acceptable only if the storage facility is isolated from other plant operations and the PCB storage facility is made of fire resistant material (steel or concrete) and is well inspected. In all cases, however, efforts should be made to isolate PCBs from contaminated oil wherever possible. This can be done by placing the two wastes in separate ISCs - many companies are doing this already - or in separate rooms, separated by fire wall in the storage building.

As discussed in Section 4.1, a number of minor site owners have stored their PCB waste in multi-use storage buildings. In 38 cases, the PCB has been stored in the same area as other flammable solvents. These sites are identified in Appendix A. This is unacceptable due to the fire risk from the solvents. PCBs should be removed from areas where flammable solvents are stored or used.

4.5 Site Operations and Inspection

The majority of the major and minor storage sites are well operated meaning:

- they are tidy;
- there is adequate space to allow for container inspection;
- containers are stacked appropriately.

Some major sites are overly crowded due to space constraints in the storage area. This is not optimal but is understandable as it is often difficult for large PCB owners to expand their facilities. All effort should be made to expand storage facilities and minimize overcrowding as much as possible.

Generally, major sites are well inspected. These larger sites are usually inspected on a monthly basis. Approximately 40% of the minor sites are also being inspected regularly.

Problems in site operations and inspection generally appear at the minor storage sites. Almost half of the minor sites have never been inspected by site owners and many of them are

very untidy. It is understood that only very small quantities of PCBs are stored at these sites. But these problems do reveal that these small site owners have problems in managing their PCB waste.

4.6 Emergency Preparedness

It was felt, for the purposes of this overview, that it is best to group:

- fire protection
- spill protection
- training

under the overall topic of emergency preparedness. These three areas are closely related as they are proactive activities undertaken to ensure that emergencies involving PCBs are well handled. As well the sites' approach to each of the three areas tended to be consistent.

Unfortunately emergency preparedness is the one aspect of PCB waste management that is the weakest. Surprisingly, 49 sites have stored their PCB in wooden enclosures and only a slight majority of major sites had adequate emergency procedures in place. The vast majority of sites have notified the local fire department of the presence of PCBs at the site. Formal emergency plans and response equipment tended to be lacking however.

The Manual stipulates that PCB storage facilities should be equipped with fire alarms. This is felt to be imperative for indoor storage areas, storing PCB liquids, that are in a room

or are an integral part of plant operations. The study team feels that fire alarms should not be necessary if the storage facility is:

- isolated from other operations at the site (a separate building or ISC); and
- made of non-flammable material; and
- PCBs are segregated as much as possible from flammables; and
- the site is regularly inspected.

Similarly, fire and spill precautions need not be as rigorous if only solids, particularly contaminated soil, are stored.

Minor sites tend to be very weak in emergency preparedness. This confirms the PCB management concerns raised in Section 4.5.

5. CONCLUSIONS AND RECOMMENDATIONS

As an overall conclusion, it can be stated that the majority of PCB storage sites, particularly major sites, are adequate. Most sites are located in secure facilities with good containment. Where weaknesses lie seem to be in site management. Many storage facilities are extremely well managed. These well managed sites tend to be the larger ones. It is at the smaller sites where inspection, emergency preparedness and general site management becomes weaker.

Other general conclusions are:

- Containment, site security and PCB identification is generally good.
- PCBs are sometimes stored with contaminated mineral oil at major sites.
- PCBs were found in 91 cases to be stored in wooden buildings and/or with flammable solvents.
- PCBs were found to be leaking from containment in nine cases.

From these general conclusions, the following recommendations have been proposed by the study team.

5.1 Recommendations

1. The foremost recommendation that can be made is to improve site management. This is particularly relevant to the minor site. Improvement to site management can be done in one of two ways:

- train site managers;
- remove wastes from the small minor sites to one or a series of centralized sites.

It is felt that both steps are necessary. The large quantity owners should be trained in site management. However, many of the small site owners have no proper place to store the PCB waste (which in many minor sites consisted of one or two capacitors), nor the ability to manage it. It is felt that these small quantities will be stored more safely and securely at a centralized facility. No large quantities of PCB waste should be shipped to this central facility, however.

2. The Environment Canada 'Manual for the Management of Wastes Containing PCBs' should be amended as follows:

- An addition should be made that PCB should not be stored in wooden structures.
- Provisions should be made for storing PCBs in ISCs and remote buildings particularly with respect to fire alarms. See Section 4.6.
- The segregation of askarel (PCB) from contaminated oil should be clarified as discussed in Section 4.4.
- Containment definitions should be extended to apply to the storage of small quantities of PCB waste, see Section 4.3.

APPENDIX A
SITES INSPECTED

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MIWIR INSPECTOR	COMMENTS
SOUTHWEST REGION				
3M Canada Inc.	Oxford Street East	London	NJ	NND
ADM Agri Industries Limited - (Processing Plant)	5550 Maplewood Drive	Windsor (Essex County)	NN	NOE
ADM Industries - (Windsor Grain Terminals)	5500 Sprucewood Avenue	Windsor (Essex County)	NN	NOE
Allied Chemicals - Amherstburg Plant		Amherstburg	NJ	NND
Amerock Inc.	278 Cook Street	Neaford	NN	NOE
Bell Canada - London	725 Colborne Street	London	NN	NOE
Bell Canada - Windsor	1591 Kildare Road	Windsor (Essex County)	NN	NOE
Bendix Electronics Ltd.	540 Park Avenue East	Chatham (Kent County)	NN	NOE
Benn Iron Foundry	4 Mason Street	Wallaceburg	NN	NOE
Birla Industries Inc. - (Brant Castings)	2700 Denzel Drive	Windsor (Essex County)	NN	NOE
Black Clawson Kennedy Ltd.	1144 1st Avenue West	Owen Sound	NN	NOE
Blackstone Industrial Prod. Ltd.	533 Romeo Street S.	Stratford	NJ	NND
Blenheim PUC	Cathcart Street	Chatham	NJ	NND
Bob-Lo Island		Walden Twp.	S	NOE
Border Tool & Die	2946 Walker Road	Windsor (Essex County)	NN	NOE
C.I.L. - Location 1		Courtright	NN	NOE
C.I.L. - Location 2		Courtright	NN	NOE
Cabot Canada Ltd.	350 Wilton Street	Sarnia	NN	NOE
Canada Building Materials Co.	1100 Dundas Street East	Woodstock	NN	NOE
Canadian Salt Co. - Ojibway Mines		Goderich	NS	NND
Canadian Talcum Limited	1055 Talbot Street	St. Thomas	NN	NOE
Chatham Hydro Electric System	81 Grand Avenue E.	Chatham	NJ	NND
Chatham Moulding	Highway #2	Raleigh Township (Kent County)	NN	NOE
Chrysler Canada - Location 1	2440 Chrysler Centre	Windsor	NJ	NND
Chrysler Canada - Location 2	2440 Chrysler Centre	Windsor	NJ	NND
City of London Board of Education - Plant Engineering Dept.	931 Leatherne Street	London	S	NOE
Cold Springs Farm Ltd.	Brock Street	Thamesford	S	NOE
Commercial Print Craft Ltd.	1193 Dundas Street East	Woodstock	NN	NOE
Daymond - Div. of Redpath Industries	155 Irwin Street	Chatham (Kent County)	NN	NOE
Department of National Defense - Wolsey Barracks	Highway Avenue	London	NN	NOE
Detroit & Canada Tunnel Corp.	University Avenue	Windsor	NJ	NND
Dontar Chemical Group - Sifto Salt, Concrete Vault	Box 100	Goderich	NN	NOE
Dontar Chemical Group - Sifto Salt - Dontar Mine on Surface Behind Salt		Goderich	NS	NND
Dontar Chemical Group - Sifto Salt - Underground Site		Goderich	S	NND
Dow Chemical Canada - Environmental Services - Location 1	Vidal Street South	Sarnia	NJ	NND
Dow Chemical Canada - Environmental Services - Location 2	Vidal Street South	Sarnia	NJ	NND
Dow Chemical Canada - Environmental Services - Location 3	Vidal Street South	Sarnia	NJ	NND
DuPont Canada - Environmental and Occupational Heal		Corunna	NJ	NND
Eaton Yale Limited	56 Riverview Drive	Chatham	NN	NOE
FAG Bearing Ltd.	801 Ontario Street	Stratford	NN	NOE
Fanshawe College	Oxford Street	London	NN	NOE
Ferraford (Div. of Pullman Canada Ltd.)	7 Michigan Blvd.	St. Thomas	NJ	NND
Fiberglas Canada Ltd.	Kenny Street	Sarnia	NN	NOE
Firestone Textiles Co.	1200 Dundas Street East	Woodstock	NN	NOE
Fisher Controls Co. of Canada	1039 Dundas Street East	Woodstock	NN	NOE
Ford Motor Company - Talbotville, Location 1	Highway #4	Talbotville	NN	NOE
Ford Motor Company - Talbotville, Location 2	Highway #4	Talbotville	NN	NOE
Ford Motor Company - Windsor	2950 Hetcalfe	Windsor	NJ	NND

No PCB Waste

Leaking drum present

Flammable solvents present

Leaking drum present

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
SOUTHWEST REGION					
Franklin Electric of Canada	Lot 22, Conc. 2 (Hwy. #81)	Adelaide Twp.	NN	NOE	Drum of lubricating oil present
General Chemical	Highway 18	Amherstburg	NJ	MND	
General Motors of Canada Limited - Windsor	1550 Eldora Road	Windsor	NJ	MND	
General Motors of Canada Ltd. - London	1991 Oxford Street East	London	NN	NOE	Combustibles present in area
Glencoe Public Utilities Commission	237 Main Street	Glencoe	NN	NOE	Flammable solvents present
Goodyear Canada Inc.	32 2nd Street East	Owen Sound	NN	NOE	
Grey County Board of Education	Box 188	Markdale	NN	NOE	
Hendrickson Mfg. (Canada) Ltd.	532 Romeo Street South	Stratford	NN	NOE	
Hensall District Cooperative		Hensall	NN	NOE	
Hiram Walker and Sons Limited	2072 Riverside Drive East	Windsor (Essex County)	NN	NOE	
Holland Hitch Ltd.	595 Athlone Avenue	Woodstock	NN	NOE	
Hoover Universal of Canada	100 Townline Road	Tillsonburg	NJ	MND	
Imperial Oil - Esso Petroleum, Location 1	P.O. Box 3004	Sarnia	NJ	MND	
Imperial Oil - Esso Petroleum, Location 2		Sarnia	NJ	MND	
Ingersoll Fasteners & Sivalco	390 Thomas Street	Ingersoll	NN	NOE	
Ingersoll Public Utilities Commission - Municipal Station 1	Mill Street	Ingersoll	NN	NOE	Paints and sealants present
Interlake Foods	1156 Dundas Street East	London	S	NOE	
Interprovincial Pipeline Ltd. - Bryanston Pumping Station		London Twp.	NN	NOE	
Interprovincial Pipeline Ltd. - Clearwater	1010 Plank Road	Clearwater	NN	NOE	
Interprovincial Pipeline Ltd. - Keyser Pumping Station		Adelaide Twp.	NN	NOE	
J.B. Carroll Sales & Rental	13 Bloomer St.	Tillsonburg	NJ	MND	
Kellogg's Salada Canada Inc.	1097 Dundas Street East	London	S	NOE	
Kelsey - Hayes of Canada Ltd. - Woodstock	Tecumseh Street	Woodstock	NN	NOE	Pails of curing resin present
Kelsey-Hayes - Windsor	1441 McDougall Ave.	Windsor	NJ	MND	
King Equipment Mfg. Corp.	1403 Dundas Street East	Woodstock	NN	NOE	
King Grain	701 Richmond Street	Chatham (Kent County)	S	NOE	
Korlin Concentrates	577 Erie Street	Stratford	NN	NOE	
Labatts	150 Simcoe Street	London	NN	NOE	
Lafarge Canada Inc. - Location 1	Lot 1, Conc. 4	Zorra Twp.	NJ	MND	
Lafarge Canada Inc. - Location 2	Lot 1, Conc. 4	Zorra Twp.	NJ	MND	
Lafarge Canada Inc. - Location 3	Lot 1, Conc. 4	Zorra Twp.	NJ	MND	
London Pollution Control Div.	Vauxhall WPCPO Price Street	London	NN	NOE	No PCB Waste
London Public Utilities Commission - Substation 2	Kitchener/Cobell St.	London	NJ	MND	
Maple Leaf Mills Ltd.	171 Railway Drive	Konoka	S	NOE	Paint & Epoxy pres.; wooden struc
Ministry of Agriculture and Food	Highway 59 North	Woodstock	S	NOE	
Ministry of Government Services - London	80 Dundas Street	London	NN	NOE	
Ministry of Government Services - Sarnia	500 North Christina Street	Sarnia	NN	NOE	
Ministry of Transportation - Stratford	581 Huron Street	Stratford	NN	NOE	
Ministry of Transportation - Chatham	745 Richmond Street	Chatham (Kent County)	NN	NOE	Stored in wooden structure
Ministry of Transportation - London	707 Exeter Road	London	NN	NOE	Stored in wooden structure
Ministry of Transportation - Owen Sound	1450 7th Avenue East	Owen Sound	NN	NOE	
Ministry of the Environment - Utility Operations Section	Lot 13, Conc. Bn Lr.	Southwold	NN	NOE	Stored in wooden structure
Ministry of the Environment - London	1921 Huron Street	London	NN	NOE	
Multi Pittings Ltd.	1055 Wilton Grove Road	London	NN	NOE	
Navistar International Corp. Canada	508 Richmond Street	Chatham (Kent County)	NN	NOE	
Northern Telecom Canada	Site Road - Box 5155	London	NN	NOE	
Novacor Chemicals	Box 3042	Sarnia	NN	NOE	
Omstead Foods Limited	Lot 23, Conc. 4	Mersea Township (Wheatley)	S	NOE	No PCB Waste

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
SOUTHWEST REGION				
Ontario Hydro - D.N.P.D., Location 2		Tiverton	NJ	MND
Ontario Hydro - D.N.P.D., Location 3	Box 5000	Tiverton	NN	NOE
Ontario Hydro - D.N.P.D., Location 4	Box 5000	Tiverton	NJ	MND
Ontario Hydro - D.N.P.D., Location 1	Box 1540	Tiverton	NJ	MND
Ontario Hydro - Beachville	Lot 13, Conc. 2	Beachville	NJ	NOE
Ontario Hydro - Buchanan Transformer Station	Pond Mills Road	London	NJ	MND
Ontario Hydro - Chatham	55 Maple Leaf Drive	Chatham	NN	NOE
Ontario Hydro - Clinton		Clinton	NJ	MND
Ontario Hydro - East Elgin TS	Lot 10, Conc. 3	Malahide Twp.	NJ	MND
Ontario Hydro - Essex	125 Irwin Avenue	Essex	NJ	NOE
Ontario Hydro - Georgian Bay Region S.C.	P.O. Box 5000	Tiverton	NN	MND
Ontario Hydro - Hanover T.S.		Hanover	NJ	MND
Ontario Hydro - Ingersoll T.S.		Ingersoll	NJ	MND
Ontario Hydro - Kent Area S.C.	955 Charing Cross	Harwick Twp.	NJ	MND
Ontario Hydro - LGS - Location 2	P.O. Box 2100	Constright	NJ	MND
Ontario Hydro - Lampton GS, Location 1		Constright	NJ	MND
Ontario Hydro - Lawson Road	Lawson Road	Windsor	NJ	MND
Ontario Hydro - Listowell S.C.	590 Bright St. E.	Listowell	NJ	MND
Ontario Hydro - Owen Sound AO, Location 1	1025 6th Street East	Owen Sound	NJ	MND
Ontario Hydro - Owen Sound AO, Location 2		Owen Sound	NN	MND
Ontario Hydro - Sandwich Street	4460 Sandwich Street	Windsor	NJ	MND No PCB Waste
Ontario Hydro - St. Andrew Street	St. Andrew Street	Sarnia	NJ	MND
Ontario Hydro - Strathroy	Ellen Street	Strathroy	NJ	MND
Ontario Hydro - Vidal Street	Vidal Street	Sarnia	NJ	MND
Ontario Hydro - Walkerton Area Office		Walkerton	NJ	MND
Ontario Hydro - Windsor	2800 Walker Road	Windsor	NJ	NOE
Ontario Hydro - Wyoming Service Yard		Wyoming	NJ	MND
Owen Sound Public Utilities Commission	210-12th Street West	Owen Sound	NN	NOE
P.P.G. Industries Ltd.	Box 600	Owen Sound	NN	NOE
Paperboard Industry Corporation - Sonnenville Packaging	Crumlin Side Road	London Twp.	NN	NOE Stored in wooden structure
Parker Hannifin (Canada) Ltd.	1000-6th Street East	Owen Sound	NN	NOE
Petrosar Limited	785 Hill Street	Corunna	NN	MND
Pillsbury Canada Ltd.	1192 Lacasse Blvd.	Tecumseh (Essex County)	S	NOE Combustibles present in area
Polysar	South Vidal Street	Sarnia	NJ	MND
Public General Hospital		Chatham	S	NOE
R.J.R. Macdonald Inc.	Goshen Street	Tillsonburg	NJ	MND
Reliance Conn/Tec Canada	122 Edward	St. Thomas	NN	MND
Rockwell International - Suspension Systems Company	105 St. George Avenue	Chatham (Kent County)	NN	NOE
Rockwell International - Tilbury	Box 250	Tilbury (Essex County)	NN	NOE Stored in wooden room
Sarnia Hydro	Confederation Street	Sarnia	NJ	MND
Shell Canada Products Ltd.		Corunna	NJ	MND
Spruce Lodge	643 Gore Rd. West	Stratford	S	NOE Combustibles present in area
St. Mary's Public Utilities Commission	St. George Street	St. Mary's	NJ	MND
Stevens-Begner Company Limited	736 Wellington Street	Port Elgin	S	NOE
Stratford Public Utilities Commission	Whyte Avenue	Stratford	NJ	MND No PCB Waste
Strathroy Public Utilities Commission	137 Frank Street	Strathroy	NN	NOE Stored in partly wooden structure
Suncor Inc. - Sarnia Refinery	Box 307	Sarnia	NN	NOE
T. B. Woods Canada Ltd.	750 Duro Street	Stratford	NN	NOE Combustibles present in area

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
SOUTHWEST REGION				
P.I. Industries	Lot 6, Conc. 3	Blenheim	NJ MND	
TCG Materials	3950 Malden Road	London Twp.	NJ MND	
Tanco Limited	Tecumseh Street	Windsor (Essex County)	NN NOE	
Thomas Built Buses Canada Ltd. - Plant 2	20 Spruce Street	Woodstock	NN NOE	
Tillsonburg Works Department	925 Devonshire Ave.	Tillsonburg	NN NOE	Stored in bldg. with wooden roof
Timberjack Inc.	2601 Union Street	Woodstock	NJ MND	
University of Windsor	64 Ursuline Street	Windsor (Essex County)	S NOE	
Ursuline Convent	1365 Matthew Brady	Chatham	NS MND	
Valenite G.T.E.	4 Park Street	Windsor (Essex County)	S NOE	
Walkerton Public Utilities Commission - Location 1	4 Park Street	Walkerton	NJ MND	
Walkerton Public Utilities Commission - Location 2	600 Gillard Street	Walkerton	NJ MND	
Wallaceburg Hydro	1230 Florence Street	Wallaceburg	NN NOE	
Wells Foundry	Box 460	London	NN NOE	Stored in wooden structure
Western Foundry Company Limited	1920 Huron Street	Wingham	NN NOE	
Westinghouse Canada	92 Julian Street	London	NN NOE	
Wheatley Public Utilities Commission	885 Wyandotte Street West	Wheatley	NJ MND	
Windsor Public Utilities Commission	370 Erie Street East	Windsor	NN NOE	
Windsor Utilities Commission - Location 1	370 Erie Street East	Windsor	NJ MND	
Windsor Utilities Commission - Location 2	1010 Clarke Side Road	Windsor	NJ MND	
Wolverine Tube	Ingersoll Ave.	London	NN NOE	
Woodstock Public Utilities Commission	273 Ingersoll Avenue	Woodstock	NN MND	
Woodstock Warehousing Ltd.		Woodstock	NN NOE	
WESTCENTRAL REGION				
ABC Rail Limited - formerly Abex Industries Ltd.	Carroll Avenue	Niagara Falls	NN MND	
ATC Manufacturing	202 Regina Street North	Waterloo	NN MND	
Abrasives Canada - (formerly General Abrasives)	3807 Stanley Avenue	Niagara Falls	NJ MND	
Aclo Compounders	498 Eagle Street W.	Cambridge	NJ MND	
Adpak International - formerly Reid Dominion	425 Parkdale Avenue North	Hamilton	NN MND	
Atlas Steel (Div. of Rio Algom)	Centre Street	Welland	NJ MND	
B.F. Goodrich Canada Incorporated	8800 Thorold Road	Niagara Falls	NJ MND	
Babcock and Wilcox	Coronation Blvd.	Cambridge	NN MND	
Beaver Wood Fibre Co. Ltd.	Allanburg Road	Thorold	NN MND	
Bell Canada - Hamilton	20 Hunter Street West	Hamilton	NN MND	
Bell Canada - Welland	90 Division Street	Welland	NN MND	
Bowen Industries - No PCB Waste	181 King St.	Waterloo	NN MND	No PCB Waste
Brantford POC	Empey Street	Brantford	NJ MND	
Brantford Twp. Hydro Electric Commission - McGill Tract	Mount Pleasant	Brantford	NJ MND	
Breslube Limited	R.R. 17	Breslau	NJ MND	
Budd Canada Incorporated - Plant 2	60 Ottawa Street	Kitchener	NJ MND	
Butler Metals	Eagle Street North	Cambridge	NJ MND	
Cambridge Brass	140 Orion Place	Cambridge	NN MND	Stored in wooden structure
Cambridge/North Dumfries Hydro - Bishop Street	1500 Bishop Street	Cambridge	NN MND	
Cambridge/North Dumfries Hydro - Dickson Street	62 Dickson Street	Cambridge	NN MND	Oil stored near capacitors
Canada Packers Inc.	94 Margret St.	Harriston	S MND	
Canadian Gypsum Co. Ltd.	Lot 15, Range West of Plank Road	Town of Haldimand	NN MND	
Canadian Liquid Air	850 Burlington St. E	Hamilton	NJ MND	
Canadian Oxy-Durez	Dunlop Street	Port Erie	NN MND	

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COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
WESTCENTRAL REGION					
Canadian Tire Acceptance	555 Prince Charles Drive	Welland	NR	NRD	
Canadian Vegetable Oil	Victoria Avenue North	Hamilton	S	NOE	
Carbochem	Strathairne Avenue North	Hamilton	NR	NRD	
Cello Products Inc.	210 Avenue Road	Cambridge	NR	NRD	
Chedoke-McMaster Hospital	Sanitorium Road	Hamilton	S	NOE	
City of Brantford Sewage Treatment Plant - (NOE Operated)	Nobank Street	City of Brantford	NR	NRD	
City of Hamilton	71 Main Street West	Hamilton	NR	NRD	
City of Niagara Falls (Service Center)	3200 Stanley Avenue	Niagara Falls	NR	NRD	
City of St. Catharines	Catherine Street	St. Catharines	NJ	NRD	
City of Welland - Municipal Landfill Site, No PCBs	Humberstone Road	Welland	NR	NRD	No PCB Waste
Colmanian Chemicals - No PCB Waste	755 Parkdale Avenue North	Hamilton	NR	NRD	No PCB Waste
Conestoga College	299 Doon Valley Dr.	Kitchener	NS	NRD	
Crowe Foundry Ltd.	95 Sheffield Street	Cambridge	NR	NRD	Flammable solvents present
Cyanamid Canada Inc. (Welland Plant)	Garner Road	Niagara Falls	NR	NRD	
DBG Plastics	329 Stirling Avenue South	Kitchener	NR	NRD	
Dayton-Walther	355 Silvercreek Park	Guelph	NR	NRD	
Dofasco - 5506 Cold Mill	Burlington Street East	Hamilton	NR	NRD	
Dofasco - Coke Breeze Sub-Station	Burlington Street East	Hamilton	NR	NRD	Flammable solvents present
Dofasco - Hot Mill Slabber T.S.	Burlington Street East	Hamilton	NR	NRD	
Dofasco - Stoney Creek	Glover Road	Stoney Creek	NJ	NRD	Stored in wooden structure
Douglas	Chapple Street	Hamilton	NJ	NRD	
Dontar Construction Materials Fibre - Thorold	Ormond Street	Thorold	NR	NRD	
Dontar Construction Materials- Caledonia	Highway 6	Caledonia	NJ	NRD	
Dundas Hydro	Park Street	Dundas	NR	NRD	
Ferranti-Packard Transformers Ltd. - Location 1	Dieppe Road	St. Catharines	NR	NRD	
Ferranti-Packard Transformers Ltd. - Location 2	Dieppe Road	St. Catharines	NR	NRD	Oil stored near capacitors
Ferranti-Packard Transformers Ltd. - Location 3	Dieppe Street	St. Catharines	NR	NRD	
Fiberglas Canada	247 York Road - Box 3603	Guelph	NR	NRD	
Firestone	1579 Burlington St E	Hamilton	NJ	NRD	
First Brands - Location 1	101 John Street	Orangeville	NR	NRD	
First Brands - Location 2	101 John Street	Orangeville	NR	NRD	
Floradale Feed Mill		Floradale	S	NOE	
Framer Inc. - Location 1	John Street	Thorold	NR	NRD	
Framer Inc. - Location 2	John Street	Thorold	NR	NRD	
Frink Canada	777 Laurel Street	Cambridge	NR	NRD	Stored in wooden structure
Galtaco Inc	Power Line Rd	Brantford Twp.	NJ	NOE	Stored in wooden structure
General Electric Canada Inc. - Guelph	201 Woodlawn Road W.	Guelph	NJ	NRD	
General Electric Canada Inc. - Hamilton	Burlington Street East	Hamilton	NR	NOE	
General Motors of Canada Ltd.	570 Glendale Ave.	St. Catharines	NJ	NRD	
General Tire Canada Ltd.	John Street	Welland	NJ	NRD	
Glendale Spinning Mills	200 Glendale Avenue North	Hamilton	NR	NRD	No PCB Waste
Goderich Elevators Ltd.	West Pier	Port Colbourne	S	NRD	
Government of Canada - Agriculture Canada Research Station	Lot 36, Conc. 2	Twp. of Norfolk	NR	NRD	
Grand River Conservation Authority - Conestoga Dam	Lot 2 and 3, Conc. 3 and 4	Peel Twp.	S	NOE	
Greater Canadian Colour Printing Ltd.	3565 Eagle Street	Stevensville	NJ	NRD	
Grimby Hydro Electric Commission	231 Roberts Road	Grimby	NJ	NRD	
Guelph Hydro - Baker Street T.S.		Guelph	NJ	NRD	Leaking transformer
Guelph Hydro - Bristol Place T.S.		Guelph	NJ	NRD	

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COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
WESTCENTRAL REGION					
Guelph Hydro - Dawson Road	104 Dawson Road	Guelph	NR	NRD	
Guelph Hydro - Fountain Street T.S.		Guelph	NJ	NRD	
Guelph Hydro - Norwich Street T.S.		Guelph	NJ	NRD	
Guelph Hydro - Paisley Road T.S.		Guelph	NJ	NRD	Leaking transformer
Guelph Hydro - Yorkshire Road T.S.		Guelph	NJ	NRD	
H. H. Robertson Inc.	Parkdale Avenue North	Hamilton	NR	NRD	
Hamilton Hydro - Location 1	450 Bebo Road	Hamilton	NR	NRD	
Hamilton Hydro - Location 2	450 Bebo Street	Hamilton	NR	NRD	
Hamilton Psychiatric Hospital	Pennell Avenue	Hamilton	S	NOE	
Harris Steel	318 Arvin Avenue	Stoney Creek	NR	NRD	
Hortons Food Products	1001 Bishop Street North	Cambridge	S	NOE	
IPC Properties Ltd. - (formerly Kitchener Bivay Market)	Weber Street	Kitchener	NR	NRD	
Imperial Oil	Westover - Box 300	Flamborough	NR	NRD	
Inco Ltd.	187 Davis Street	Port Colborne	NJ	NRD	
Interprovincial Pipeline	Westover	Flamborough	NR	NRD	
J. I. Case - Tenneco	450 Sherman Avenue North	Hamilton	NR	NRD	Stored in room with wooden roof
John Deere - Welland Works	Canal Bank Road	Welland	NR	NRD	
Johnson & Matthey Ltd. - Foundry Division	16 Smith Street	St. Catharines	NR	NRD	
Joy Tech Canada Inc.	130 Otonabee Dr.	Kitchener	NR	NOE	Stored on wooden skids
Keene-Widelite Inc.	455 Dobbie Drive	Cambridge	NR	NRD	
Kenhar Products Ltd.	Box 1500	Guelph	NR	NRD	
Kimberly-Clark Corp.	45 Merrit Street	St. Catharines	NJ	NRD	
Kitchener-Wilmot Hydro	144 Bleans Road	Kitchener	NR	NRD	
Kitchener/Waterloo Hospital	835 King Street West	Kitchener	NS	NRD	
Largo Cold Storage	Hanh Road North	Hamilton	NJ	NRD	
Lapp Insulators	100 Beddoe Drive	Hamilton	NR	NOE	Flammables present in area
Lean Flow Metal Products	205 Mary Street	City of Brantford	NR	NRD	
Lear Siegler	530 Manitou Drive	Kitchener	NR	NRD	
Letco Ltd.	1212 Bishop Street North	Cambridge	NR	NRD	
Lucidol - (Division of Pennwalt)	575 Garrison Road	Port Erie	NR	NRD	
M. A. Henry	1 Head Street	Dundas	NR	NRD	
MTD Products	136 Ottawa Street	Kitchener	NR	NRD	
Macmillan Bathurst	390 Woodlawn Road	Guelph	NR	NRD	
Maple Leaf Mills - Port Colborne	King Street	Port Colborne	NS	NRD	
Maple Leaf Mills - Rothsay, Moorefield	R. R. 1	Moorefield	S	NOE	
Massey Combines Corp.	225 Henry Street	Brantford	NJ	NRD	
Master Feed - Baden	75 Charles Street	Baden	S	NOE	
Master Feed - Guelph	231 Speedvale Avenue West	Guelph	S	NOE	
McRobert Springs	575 Conestoga Blvd.	Cambridge	NJ	NRD	
Ministry of Transportation - Storage Building	1200 South Service Road	Stoney Creek	NR	NRD	Flammables present in area
Ministry of the Environment - Hespeler WPCP	Beaverdale Road	Cambridge	NR	NOE	
Ministry of the Environment - Smithville	Thompson Road	Smithville	NJ	NRD	
Miracle Food Mart	Upper James Street	Hamilton	S	NOE	
Mohawk Hospital Service	Chedmac Drive	Hamilton	S	NOE	
Newlands Textiles	31 Anaslie Street South	Cambridge	NR	NRD	Stored in room with wooden wall
Niagara Falls Hydro Electric Commission	Leonard Avenue	Niagara Falls	NJ	NRD	
Niagara North Housing Authority	17 Gale Cren.	St. Catharines	S	NRD	
Noranda Metal Ind.	865 Gartsshore Street	Fergus	NR	NRD	

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COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
WESTCENTRAL REGION				
Borton Canada Inc. - Hamilton	3 Beach Road	Hamilton	NR	NND
Borton Company - Niagara Falls	8001 Daly Street	Niagara Falls	NJ	NND
Onark Canada Limited	505 Edinburgh Road North	Guelph	NR	NND
Onex Packaging - Hamilton	391 Victoria Street North	Hamilton	NR	NND
Onex Packaging - Niagara Falls	5695 Lewis Avenue	Niagara Falls	S	NND
Ontario Hydro - Beach T.S.	1742 Burlington Street East	Hamilton	NR	NND
Ontario Hydro - Brant TS		Brantford	NJ	NND
Ontario Hydro - Crowland Transformer Station	Hammerstone Road	Welland	NJ	NND
Ontario Hydro - Detweiler Station, Location 1	1721 Glasgow Street	Kitchener	NJ	NND
Ontario Hydro - Detweiler TS, Location 2	1721 Glasgow St.	Kitchener	NJ	NND
Ontario Hydro - Dundas T.S.	40 Olympic Drive	Dundas	NR	NND
Ontario Hydro - Elmira T.S.	Waterloo Rd. 21	Elmira	NR	NND
Ontario Hydro - Gage T.S.	Gage Street	Hamilton	NR	NND
Ontario Hydro - Galt T.S.	Franklin Blvd.	Cambridge	NR	NND
Ontario Hydro - Guelph, Location 3	225 Edinburgh Road	Guelph	NJ	NND
Ontario Hydro - Guelph, Location 1	225 Edinburgh Road	Guelph	NJ	NND
Ontario Hydro - Kitchener-Wilmot Yard	1721 Glasgow Street	Kitchener	NR	NND
Ontario Hydro - Lincoln Area	1100 Ontario Street	Beaconsfield	NJ	NND
Ontario Hydro - Middleport TS		Middleport	NJ	NND
Ontario Hydro - Mohawk T.S.	Mohawk Road	Hamilton	NR	NND
Ontario Hydro - Nanticoke GS		Nanticoke	NJ	NND
Ontario Hydro - Newton T.S.	1053 Main Street West	Hamilton	NR	NND
Ontario Hydro - Orangeville T. S.	Twp of Annapolis	Orangeville	NR	NND
Ontario Hydro - Orangeville, Location 1	70 Third Street	Orangeville	NJ	NND
Ontario Hydro - Orangeville, Location 2	70 Third Street	Orangeville	NR	NND
Ontario Hydro - Port Colborne T.S.	Davis & Durham Street	Port Colborne	NR	NND
Ontario Hydro - Simcoe	4 Boswell Street	Simcoe	NJ	NND
Ontario Hydro - Sir Adam Beck Generating Station		Niagara Falls	NJ	NND
Ontario Hydro - T&D Centre	Box 338	Orangeville	NR	NND
Ontario Rendering	Highway 5	Flamborough	S	NOE
Oshawa Group Ltd. - formerly Tovers	980 East Main Street	Welland	NR	NND
Otis Elevators	414 Victoria Ave. North	Hamilton	S	NOE
Parrish & Heimbecker Ltd. - Swift Feeds Division	Camden Road	Vineland	NR	NND
Pennman's (Div. of T.A.G. Apparel Ltd.) - formerly Dominion Fashion Group	111 Savage Drive	Cambridge	NR	NND
Pillsbury Canada Ltd. - (Formerly Brights Foods Canada)	Thorold Stone Road	Niagara Falls	NR	NND
Polysar - Plastics Division	475 Wilmer Street	Cambridge	NR	NND
Port Colborne Drop Forgings Ltd.	837 Reuter Road	Port Colborne	NR	NND
Port Colborne Hydro Site	380 Elm Street	Port Colborne	NR	NND
Procter & Gamble	Burlington Street E.	Hamilton	NJ	NND
Quebec & Ontario Paper Company	Allanburg Road	Thorold	NJ	NND
Reg. Mun. of Halimand-Norfolk - Simcoe Sewage Treatment Plant	16 Oakwood Avenue	Town of Simcoe	NR	NND
Reg. Mun. of Halimand-Norfolk - Water Treatment Plant	Lot 6, Conc. 1	Nanticoke	NS	NND
Reg. Mun. of Hamilton-Westworth - Water Treatment Plant	700 Woodward Avenue	Hamilton	NS	NND
Reg. Mun. of Hamilton-Westworth - Woodward Avenue STP	700 Woodward Avenue	Hamilton	NJ	NND
Regional Municipality of Niagara - Hillside Drive Water Pumping Sta.	2201 St. David's Road	Thorold	S	NND
Rondar Services (Can.) Ltd.	33 Centennial Hwy N	Hamilton	NJ	NND
Rosart Developments	Dundurn Street	Hamilton	S	NOE
Saddlery Hardware	RR #1 Waterloo	Waterloo	NR	NND

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COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
WESTCENTRAL REGION					
Seagram & Sons Ltd.	80 Erb Street West	Waterloo	S	NOE	
Seneca (St. Catharines) Manufacturing	Regional Road #55	Niagara on the Lake	NR	HND	Asphalt stored in furnace room
Shaw Pipe Protection Ltd.	Buy. 140 & Ridge Road	Welland	NR	HND	
Sincoe Leaf Products	Second Avenue	Town of Sincoe	NR	HND	Oil stored near capacitors
Slater Steel	319 Sherman Avenue	Hamilton	NJ	HND	
St. Catharines Hydro Electric Commission	Panickie Road	St. Catharines	NJ	HND	
St. Joseph's Hospital	50 Charlton Avenue East	Hamilton	S	HND	
Steelley Industries	447 Moxley Road	Dundas	NJ	HND	
Stelco Inc. - Brantford Works	168 Colborne St. West	City of Brantford	NR	HND	
Stelco Inc. - Lake Erie Works	Lots 1-4, Conc. 1-3	City of Nanticoke	NR	HND	Oil stored with asphalt
Stelco Pipe and Tube Co. - Page Hersey Works	Main Avenue	Welland	NJ	HND	
Stelco Pipe and Tube Co. - Welland Tube Works	Rusholme Road	Welland	NJ	HND	
Stelco, Milton Works	Milcos Street	Hamilton	NJ	HND	
Stoney Creek Hydro	Highway 8	Stoney Creek	NJ	HND	
Sun Squeeze Juices	318 Woodlawn Avenue West	Guelph	S	NOE	
Sun-Canadian Pipeline Company	Paris East River Road Pumping Sta.	Twp. of South Dumfries	NR	HND	
Sunarhauserman Limited	1 Sunshine Avenue	Waterloo	NR	HND	
TBN Canada Limited	230 Louth Street	St. Catharines	NJ	HND	
TYI	545 Speedvale Avenue West	Guelph	NR	HND	No PCB Waste
Tend-B-Fresh		Petersburg	S	NOE	
Thorold Hydro	47 Front Street	Thorold	NR	HND	
Town of Paris Public Utilities Comm.	Highway 2, Paris	Town of Paris	NR	HND	
Tricil	470 Xenora Avenue	Hamilton	NR	HND	
Union Carbide Canada Ltd. - P.O. Box 1001	Canal Bank Road	Welland	NJ	HND	
Unizoyal Goodrich	149 Strange Street	Kitchener	NJ	HND	
University of Guelph	Stone Road	Guelph	S	NOE	
University of Waterloo	200 University Avenue	Waterloo	S	HND	
V.M.E. Equipment	200 Woodlawn Road West	Guelph	NR	HND	Stored in wooden box
W.C. Wood Company	5 Arthur Street	Guelph	NR	HND	Flammables present in area
WCI Manufacturing	501 Franklin Blvd.	Cambridge	NR	HND	
Walker Brothers Industries Ltd. - (Quarry Operators)	Thorold Townline	Niagara Falls	NR	HND	
Walker Exhausts	500 Conestoga Blvd.	Cambridge	NR	HND	
Water Pollution Control Plant	190 University Avenue East	Waterloo	NR	HND	
Waterloo Board of Education - Ardelet Avenue	51 Ardelet Avenue	Kitchener	S	NOE	
Waterloo Board of Education - Charles Street	301 Charles Street	Kitchener	S	NOE	
Waterloo North Hydro	530 Conestoga Pkwy.	Waterloo	NR	HND	Oil stored near capacitors
Welland Hydro Electric Commission	950 East Main Street	Welland	NR	HND	
Westinghouse - Burlington Street	1632 Burlington Street	Hamilton	NR	NOE	
Westinghouse - Sanford Avenue	Sanford Ave. at Myler St.	Hamilton	NR	NOE	
Westinghouse - Woodward Avenue	717 Woodward Avenue	Hamilton	NR	HND	
Witco Inc.	48 Alice St.	Brantford	NJ	NOE	Stored in building with wood roof
CENTRAL REGION					
591327 Ontario Ltd.	388 Carlaw Avenue	Toronto	NJ	HND	
A. G. Simpson Company - Oakville	1218 South Service Road	Oakville	NR	HND	
A. Mantella & Sons - formerly Sun Bean Corp. Canada Ltd.	1040 Inlington Avenue	Toronto	NR	HND	Flammables present in area
A.G. Simpson Limited - Scarborough	675 Progress Avenue	Scarborough	NR	HND	
ASEA Inc.	3350 American Drive	Mississauga	NR	HND	

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COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
CENTRAL REGION					
AW-Bite Mini Storage Inc.	21 Fleeceline Road	Etobicoke	NJ	NHD	
Air Canada	6470 Airport Road	Mississauga	NH	NHD	No PCB Waste
Ajax Hydro Electric Commission - Donly Road Substation, No PCB Waste	230 Harwood Ave. South	Ajax	NH	NHD	
Ajax Hydro Electric Commission - Motion Road Substation		Ajax	NJ	NHD	
Ajax Precision Mfg. Ltd.	37 Penn Drive	Neston	NH	NHD	
Alcan Rolled Products Ltd. Co. - No PCB Waste	Lot 1/Conc. XI Droper Ward- Box 1568	Bracebridge	NH	NHD	No PCB Waste
Alive Industrial Electronics	164 Limestone Crescent	Downsview	NH	NHD	
Allanson, Div. of Jannock Ltd.	33 Cranfield Road	Toronto	NJ	NHD	
Anova Ltd - (West Bend)	306 John Street	Barrie	NH	NHD	
Arrowhead Metals Ltd.	260 Eighth Street	Toronto	NH	NHD	
Atmospheric Environment Service	7970 Weston Road	Woodbridge	NH	NHD	
BASF Inmont Canada Inc.	12 Shaftsbury Lane	Brampton	NH	NHD	
Barrie Public Utilities Commission	165 Ferndale Drive	Barrie	NJ	NOE	
Baxter Travenol Laboratories	89 Centre Street	Alliston	NJ	NHD	
Beaver Creek	Lot 1, 2, 3, Conc. 6	Mushoka	NH	NHD	Stored in wooden structure
Bell Canada - Acton Ave.	240 Acton Avenue	Toronto	NH	NHD	
Bell Canada - Adelaide St.	76 Adelaide Street West	Toronto	NH	NHD	
Bell Canada - Asquith Ave.	15 Asquith Avenue	Toronto	NH	NHD	
Bell Canada - Buildings Department	183 Hunter Street	Peterborough	NH	NHD	
Bell Canada - Newmarket	349 Mulock Drive	Newmarket	NH	NHD	No PCB Waste
Bell Canada - Onawa	15 Victoria Street	Onawa	NH	NHD	
Bell Canada - Ridelle Ave.	130 Ridelle Avenue	Toronto	NH	NHD	Flammables present in area
Bell Canada - Signet Drive, Toronto	85 Signet Drive	Toronto	NJ	NOE	
Bell Canada - Simcoe St.	220 Simcoe Street	Toronto	NH	NHD	
Benson & Hedges Ltd.	174 Kennedy Road	Brampton	S	NOE	
Boart Canada Ltd.	2442 South Sheridan Way	Mississauga	NH	NHD	
Boven Company Limited	75 Vickers Road	Etobicoke	NJ	NHD	
Brampton Hydro Electric	129 Glidden Road	Brampton	NJ	NHD	
Burlington Hydro Work Yard	1340 Brant Street	Burlington	NJ	NHD	
C.P.D. Borden - Building P154		Angus	NH	NHD	
C.P.W. Disposal	R.D. 3	Barrie	NJ	NHD	
CBC - Base of CN tower	41 John Street	Toronto	NH	NHD	
CLL Inc.	134 Kennedy Road	Brampton	NH	NHD	
Cable Tech. Wire Co. Ltd. - Hona Industries Ltd.	Whitchurch Stouffville	Stouffville	NH	NHD	
Cadbury Schweppes Inc. - No PCB Waste	1610 Champlain Avenue	Whitby	NH	BE	No PCB Waste
Cadillac Fairview Corporation - Hillcrest Mall	9350 Yonge Street	Richmond Hill	NH	NHD	
Cadillac Fairview Corporation - King Street	77 King Street West	Toronto	NJ	NHD	
Cadillac Fairview Corporation - Sheppard	1210/20 Sheppard Avenue East	Scarborough	NH	NHD	
Cadillac Fairview Corporation - Wellington Street	100 Wellington St.	Toronto	NJ	NHD	
Canada Brick Company Ltd.	3065 Davis Road	Mississauga	NH	NHD	
Canada Cup Ltd.	2230 Brongrove Road	Mississauga	NH	NHD	
Canada Packers - Beardmore Tannery	Elgin Street	Acton	NH	NHD	
Canada Packers - Gelatine Plant	50 Paton Road	Toronto	S	NOE	
Canada Packers Inc. - St. Clair Avenue	2260 St. Clair Ave W	Toronto	NS	NHD	
Canada Post - South Central Letter Plant	40 Bay Street	Toronto	NH	NHD	
Canada Square Devel.	940 Lansdowne Ave.	Toronto	NJ	NHD	
Canada Systems Corporation	2599 Speakman Drive	Mississauga	NH	NHD	
Canadian General Electric - Burlington	1150 Walker's Line	Burlington	NJ	NHD	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MIOR INSPECTOR	COMMENTS
CENTRAL REGION				
Canadian General Electric - Oakville	420 South Service Road	Oakville	MM	MND
Canadian General Electric - Peterborough, Location 2	107 Park Street N.	Peterborough	NJ	MND
Canadian General Electric - Peterborough, Location 1	107 Park Street N	Peterborough	NJ	MND
Canadian General Electric - Toronto	940 Lansdowne Ave.	Toronto	NJ	MND
Canadian Lukens Ltd.	50 Taber Road	Bendale	NJ	MND Drums rusty & overfilled; flamm.
Canron Ltd. - Location 1	324 Cherry Street	Toronto	NJ	MND
Central Machines and Metals	89 Pennar Dr.	Weston	MM	MND
City of Toronto - Board of Education	849 Eastern Avenue	Toronto	S	MND
City of Toronto - Dept of Public Works	433 Eastern Avenue	Toronto	MM	MND
City of Toronto - Housing Dept	101 Hanson St	Toronto	MM	MND Damaged drums present
Columbus McKinnon Ltd.	Brook Drive North	Cobourg	MM	MND
Comaco Ltd. - Product Research Center	Sheridan Park	Mississauga	MM	MND Stored next to flammable storage
Consumers Glass Co. Ltd.	777 Kipling Avenue	Etobicoke	NJ	MND
Continental Can Canada	7250 Keele Street	Concord	MM	MND
Corah Ltd.	60 Bell Farm Road	Barrie	MM	MND
Crowle Pitting Ltd.	86 Pennar Drive	Weston	MM	MND
Crown Cork and Seal	7900 Keele Street	Concord	MM	MND
Crushall Aggregates	1153A Hartingrove Rd.	Etobicoke	MM	MND Stored in wooden structure
Curtis Properties	2401 Dixie	Mississauga	MM	MND
Dayco Canada Ltd.	46 Morelco Drive	North York	NJ	MND
Department of National Defence - C.P.D. Downsview	C.P.D. Plant #2	Downsview	MM	MND
Department of National Defence - C.P.D. Toronto	1107 Avenue Road	Toronto	MM	MND No PCB Waste
District Municipality of Muskoka - Huntsville S.T.P.	Box 1720	Bracebridge	MM	MND
Dominion Cellulose Limited	1551 Weston Road	Toronto	MM	MND
Dominion Colour Company	199 New Toronto St.	Toronto	NJ	MND
Dontar Chemical Group - Longford Mills	Box 307	Orillia	MM	MND
Dontar Construction Materials	Dist Rd. #3 - Box 7500	Huntsville	MM	MND
Dontar Packaging - East York	1 Laird Drive	East York	MM	MND Stored in box with wooden lid
Dontar Packaging - Toronto	450 Evans Avenue	Toronto	MM	MND
Dontar Packaging Container - Mississauga	7447 Bramalea Road	Mississauga	MM	MND
Donlee Precision Div. - Div. of Donlee Mfg. Ind. Ltd.	9 Pennar Drive	Weston	MM	MND
Dow Chemical of Canada Ltd.	122 Arrow Road	Weston	MM	MND
Dufferin Aggregates	First Line - Box 63	Hilton	MM	MND
Dufferin Concrete	68 Old Orchard Road	Pickering	NJ	MND
Duplate Div. of PPG	155 First Avenue	Oshawa	NJ	MND
E. Mark Electric Equipment	6865 Airport Road	Walton	NJ	MND
East York Board of Education - Valley Park Junior High	130 Overlea Boulevard	Toronto	S	NOX
East York Hydro	3 Dohne Avenue	East York	NJ	MND
Eldorado Resources Ltd.	1 Eldorado Place	Port Hope	NJ	MND
Esco Ltd.	Hope Street South	Port Hope	MM	MND
Etobicoke Hydro - East Mall	395 The East Mall	Etobicoke	MM	MND
Etobicoke Hydro - Kipling Avenue	1924 Kipling Avenue	Etobicoke	MM	MND
Etobicoke Hydro - Rosethorne Substation	1442 Inlington Avenue	Etobicoke	MM	MND
Exide Electronics	5200 Dixie Road - Unit 20	Mississauga	MM	MND
F.W. Pearson Co.	821 Appleby Line	Burlington	S	NOX
Federal Pioneer Ltd.	445 Horner Avenue	Toronto	MM	MND Flammables present in area
Ferranti-Packard Ltd.	121 Industry Street	Toronto	MM	MND
Fittings (1980) Inc.	135 Bruce Street	Oshawa	MM	MND

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
CENTRAL REGION				
Ford Motor Company of Canada - Oakville	The Canadian Road	Oakville	NN	HND
Ford Motor Company of Canada- Bramalea	8000 Dixie Road	Bramalea	NJ	HND
Forged Forks Ltd.	750 Weller Court	Oakville	NN	HND
G.T. Wood	3354 Havis Road	Mississauga	NN	HND
G.T.E. Sylvania	56 Atomic Avenue	Toronto	NN	HND
G.W. Martin Limited - Flooring Plant, Location 1	40 Main Street West	Huntsville	NN	HND
G.W. Martin Limited - Flooring Plant, Location 2	40 Main Street West	Huntsville	NN	HND
G.W. Martin Lumber Limited - Saw Mill	40 Main Street West	Huntsville	NN	HND
Gabriel of Canada Limited	3600 Lakeshore Blvd. West	Toronto	NN	HND
General Foods	520 William Street	Cobourg	NS	HND
General Motors of Canada - Central Plant Engineering		Oshawa	NJ	HND
General Tire and Rubber Co. - Location 1	220 John Street	Barrie	NN	HND
General Tire and Rubber Co. - Location 2	220 John Street	Barrie	NN	HND
Global Television	Brock Road	Orbridge	NJ	HND
Goodyear - Bowmanville		Bowmanville	NN	HND
Goodyear - Toronto	225 Birmingham Street	Toronto	NN	HND
Greenspoon Bros. Limited - Highway 7	R.R. 8	Brampton	NJ	HND
Grinnell Corp. of Canada Ltd.	2440 Dundas Street West	Toronto	NN	HND
Halton Hills Hydro	43 Alice Street	Georgetown	NN	HND
Hansen Cartage Ltd.	2 Overend Street	Toronto	NJ	HND
Hanson Inc.	45 Vansco Road	Toronto	NN	HND
Harbourfront Corporation	231 Queen's Quay West	Toronto	NN	HND
Harnischfeger P&H	875 Progress Avenue	Scarborough	NN	HND
Hilroy - Div. Abitibi-Price Inc.	250 Howie Avenue	Toronto	NN	HND
Honeywell	740 Ellesmere	Scarborough	NN	HND
Hospital for Sick Children	55 University Avenue	Toronto	S	NOE
Huls Canada Inc. - formerly Houdex Canada Limited	34 Industrial Street	Toronto	NN	HND
Hunter Drums Limited	1121 Pioneer Road	Burlington	NN	HND
Husky Carbons (Canada) Ltd.	Pt. Lot 16/Conc 6 Chaffeyward	Nunkota	NN	HND
IDM Canada Ltd. - Markham	233 Alden Rd.	Markham	NN	HND
IDM Canada Ltd. - Don Mills	844 Don Mills Road	North York	NJ	HND
Indalex - Division of Indol Ltd.	61 Arrow Road	Weston	NN	HND
Indalloy - Div. of Indal Ltd.	7 Alloy Court	Toronto	NN	HND
Indusmin	7 Hanley Street	Midland	NN	HND
J.E. Thomas Specialties Ltd.	50 Mary Street	Lindsay	NN	HND
Jaguar/Rolls Royce/Saab on Bay	740 Dupont Street	Toronto	NN	HND
Johnson & Matthey Ltd. - Brampton	130 Glidden Road	Brampton	NN	HND
Johnson Matthey Ltd. - Toronto	110 Industry Street	Toronto	NN	HND
K-Tek Electrical	3111 Kennedy Road	Scarborough	NJ	HND
Kawneer Company	1051 Ellesmere Road	Scarborough	NN	HND
Kimberly Clark	Ravencliffe Rd. Box 790	Huntsville	NN	HND
Kodak Canada Ltd.	3500 Eglinton Ave W	Toronto	NJ	HND
Labatt's Breweries	58 Resources Road	Etobicoke	S	NOE
Lake Simcoe Enterprises Ltd.	10 Shorcliffe Road	Etobicoke	S	HND
Lantic Sugar	1123 Farewell Avenue South	Oshawa	S	NOE
Larcan Comm. Equip. Inc.	6250 Northman Drive	Mississauga	NN	HND
Lasco Steel	Hopkins Street South	Whitby	NJ	HND
Lepage's Ltd.	50 West Drive	Brampton	NN	HND

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
CENTRAL REGION				
Lineman's Testing Lab. Can. Ltd.	100 Rivalda Road	Toronto	MM	MND
MCA Canada Ltd.	2450 Victoria Park Avenue	Toronto	MM	MND
Maple Leaf Mills - Pt. McColl	Box 70	Pt. McColl	S	NOE Stored in wooden structure
Maple Leaf Mills - Bothay, Toronto	554 Lakeshore Boulevard East	Toronto	S	NOE Stored in room with wooden floor
Maple Lodge Farms	B.R. #2	Borval	S	NOE
Marina Bay Condominiums	25 Ellen Street	Barrie	MM	MND
Markham Hydro	8100 Varden Avenue	Markham	MM	MND
Mattel Canada Inc.	800 Islington Avenue	Toronto	MM	MND
McDonnell-Douglas Canada Ltd.	Berry Road and Airport Road	Mississauga	MM	MND Flammables present in area
Metals and Alloys Co. Ltd. eto	1 Copeland Street	Toronto	MM	MND
Metro Toronto Works Department - Collingham Street	235 Collingham Street	Toronto	MM	MND
Metro Toronto Works Department - Humber Sewage Treatment Plant	130 The Queensway	Etobicoke	MM	MND Stored in wooden shipping cont.
Metro Toronto Works Department - Main S.T.P. Ashbridges Bay	1091 Eastern Avenue	Toronto	MJ	MND
Metro Toronto Works Department - BC Harris Filtration Plant	2701 Queen Street East	Toronto	MM	MND
Metro Toronto Works Department - Rockliffe Yard	Commissioner's St.	Toronto	MJ	MND Stored in wooden structure
Metro Toronto Works Department - Commissioner Street	545 Commissioner Street	Toronto	MM	MND
Metropolitan Toronto Separate School Bd	97 Railside Road	North York	MM	MND
Milton Hydro	55 Thompson Road	Milton	MM	MND
Ministry of Correctional Services - East Metro Detention Centre	55 Civic Road	Scarborough	MM	MND
Ministry of Government Services - Downsview, Location 1	1201 Wilson Avenue	Downsview	MM	MND
Ministry of Government Services - Downsview, Location 2	1201 Wilson Avenue	Downsview	MM	MND
Ministry of Government Services - Edgar	22 James Street South	Orillia	MM	MND Stored in wooden structure
Ministry of Government Services - Grosvenor Street	95 Grosvenor Street	Toronto	MJ	MND
Ministry of Government Services - Harbour Street	90 Harbour Street	Toronto	MM	MND
Ministry of Government Services - Whitney Block	99 Wellesley St	Toronto	MJ	MND
Ministry of Government Services - York Street	6 York Street	Toronto	MM	MND
Ministry of Natural Resources - Maple Research Station	10401ufferin Street	Maple	MM	MND
Ministry of Transportation - Port Hope	138 Hope Street North	Port Hope	MM	MND No PCB Waste
Ministry of Transportation - Scarborough	Highway 401 & Kennedy Rd. Substat.	Scarborough	MM	MND
Ministry of Transportation - Supply Yard Central Region #25	1927 Kipling Avenue	Etobicoke	MM	MND
Ministry of the Environment - Lab Services	125 Resources Road	Toronto	MJ	MND
Mississauga Hydro	2255 Royal Windsor Drive	Mississauga	MM	MND
Mississauga Hydro - Asta Drive	2060 Havis Road	Mississauga	MM	MND
Mississauga Hydro - Havis Road	3240 Havis Road	Mississauga	MJ	MND
Mosaic Chemical Corp. - Thomas Rav. Grou	5369 Haingate Drive	Mississauga	MJ	MND
Mr. M. Williams	8 Kenneth Avenue	Pefferlaw	MM	MND
Mr. S. Pronty	B.R.#3 Bowmanville Lot 33/Conc.3	Town of Newcastle	MM	MND Wood and gasoline stored in area
MCA Canada Ltd.	111 Westmore Drive	Toronto	MM	MND Stored in wood struct,flammables
MND Industries - No PCB Waste	1905 Signet	Mississauga	MM	MND
Nacan Products Ltd.	371 Wallace Avenue	Toronto	MM	MND
Newmarket Hydro	500 Water Street	Newmarket	MM	MND
North Forest Investments Inc.	2015 Lawrence Ave. W -storage truck	Markham	MM	MND
North York Hydro - Dyan Road	14 Dyan Road	North York	MJ	MND
North York Hydro - Goddard Street	175 Goddard Street	North York	MJ	MND
North York Hydro - Torsyork	50 Torsyork Road	North York	MM	MND
Northern Pigment	36 Towns Road	Etobicoke	MM	MND
Northern Telecom Canada Ltd. - Barrie	23 Lorena Street	Barrie	MM	MND
Northern Telecom Canada Ltd. - Weston	30 Borelco Drive	Weston	MM	MND Flammables present in area

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
CENTRAL REGION					
Oakville Public Utilities Commission	530 Lyons Lane	Oakville	NJ	MND	
Ontario Cancer Institute - Princess Margaret Hospital	519 Jarvis Street	Toronto	S	MOE	
Ontario Development Corporation	Northam Industrial Park - Box 415	Cobourg	NN	MND	
Ontario Hydro - Agincourt T.S.	3065 Kennedy Road	Scarborough	NJ	MND	
Ontario Hydro - Barrie	306 Tiffin Street	Barrie	NN	MND	
Ontario Hydro - Beaverton	Highway 12	Beaverton	NN	MND	
Ontario Hydro - Bermondsey T.S.	Bermondsey St. Trans. Stn.	North York	NN	MND	
Ontario Hydro - Bronte T.S.	Highway 25 and QEW	Oakville	NJ	MND	
Ontario Hydro - Campbellford	Trent Drive	Campbellford	NJ	MND	
Ontario Hydro - Central Maintenance Stores	800 Brock Road South	Pickering	NJ	MND	
Ontario Hydro - Cherrywood T.S.	Lots 25-27, Conc. 2	Pickering	NJ	MND	
Ontario Hydro - Cobourg	500 Hall Street	Cobourg	NJ	MND	
Ontario Hydro - Darlington H.G.S.	P.O. Box 1000	Newcastle	NJ	MND	
Ontario Hydro - Darlington Warehouse Site	Box 1000	Bowmanville	NJ	MND	
Ontario Hydro - Dobbin T.S.	Lot 6, Conc. 1	Smith Township	NN	MND	
Ontario Hydro - Emily Twp.-Onenec Regulating Stn.	Lot 1, Conc. 6	Emily Twp.	NJ	MND	
Ontario Hydro - Esplanade Transfer Station	Frederick & Wilton	Toronto	NJ	MND	No PCB Waste
Ontario Hydro - Eusa T.S.	R.R. 2	Utopia	NJ	MND	
Ontario Hydro - Fairchild T. S.	5760 Yonge Street	North York	NN	MND	
Ontario Hydro - Fenlon Falls	Lot 33, Conc. 6	Fenlon Falls	NJ	MND	
Ontario Hydro - Hamilton Twp.	Lot 34/Conc. 1	Hamilton Twp.	NN	MND	
Ontario Hydro - Huntsville SC	Lot 8, Conc. 1	Huntsville	NJ	MND	
Ontario Hydro - Huronia S.C.	45 Sargeant Drive	Barrie	NJ	MND	
Ontario Hydro - King Road	1225 King Rd	Toronto	NN	MND	
Ontario Hydro - Lakeview Generating Station	Hydro Road	Mississauga	NN	MND	
Ontario Hydro - Leaside T.S.	1080 Millwood Road	East York	NN	MND	
Ontario Hydro - Leslie T.S.	5655 Leslie Street	North York	NN	MND	
Ontario Hydro - Lock AO	30 Lockport Avenue	Etobicoke	NN	MND	
Ontario Hydro - Minden TS	Lot 24, Con. 5	Minden	NJ	MND	
Ontario Hydro - Muskoka Area	Box 810	Bracebridge	NJ	MND	
Ontario Hydro - Muskoka T.S.	R.R. 3	Wittemson	NJ	MND	
Ontario Hydro - Newmarket	301 Mulock Drive	Newmarket	NJ	MND	
Ontario Hydro - Orillia	333 Frost Street	Orillia	NN	MND	
Ontario Hydro - Penetang. S.A.	7 O.L. Dubeau Drive	Penetanguishene	NN	MND	Stored in wooden box
Ontario Hydro - Peterborough	913 Crawford Drive	Peterborough	NJ	MND	
Ontario Hydro - Pickering A		Pickering	NJ	MND	
Ontario Hydro - Pickering B	Box 1000	Pickering	NJ	MND	
Ontario Hydro - R.L. Hearn TS - Location 2	440 Unwin Avenue	Toronto	NJ	MND	
Ontario Hydro - R.L. Hearn TS, Location 1	440 Unwin Avenue	Toronto	NJ	MND	
Ontario Hydro - Research Centre, Location 1	800 Kipling Avenue	Etobicoke	NJ	MND	
Ontario Hydro - Research Centre, Location 2	800 Kipling Ave	Etobicoke	NJ	MND	
Ontario Hydro - Research Centre, Location 3	800 Kipling Ave	Etobicoke	NJ	MND	
Ontario Hydro - Roselawn Avenue	950 Roselawn Avenue	Toronto	NN	MND	
Ontario Hydro - Scarborough Transformer Station	2411 Kennedy Road at Lawrence	Scarborough	NN	MND	
Ontario Hydro - Sheppard T.S.	Sheppard Avenue at Dean Park Road	Scarborough	NN	MND	
Ontario Hydro - Stayner T.S.	Stayner T.S.	Northwest Twp.	NN	MND	
Ontario Hydro - Thornton T.S.	Thornton Rd.	Oshawa	NN	MND	
Ontario Hydro - Tompkins TS	4460 Tompkins Road	Mississauga	NN	MND	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
CENTRAL REGION					
Ontario Hydro - Warden T.S.	Warden Ave. South of St. Clair	Toronto	NR	NMD	
Ontario Hydro - Wabashdene TS	Lot 9, Con. 9	Tay Twp.	NJ	NMD	
Ontario Hydro - Wilson T.S.	Part of Lot 7/Conc.3	Oshawa	NR	NMD	
Ontario Hydro - Wiltshire Ave.	75 Wiltshire Avenue	Toronto	NR	NMD	
Ontario Hydro - Alliston	55 Tupper Street	Alliston	NJ	NOE	
Ontario Hydro - Kelfield	65 Kelfield Street	Etobicoke	NJ	NOE	
Orillia Water, Lights & Power Comm.	360 West Street South	Orillia	NR	NMD	
Orser Electric Ltd	301 Forest Avenue	Orillia	NR	NMD	
Oshawa Foods	American Drive	Mississauga	NR	NMD	
Oshawa Post Office	47 Simcoe Street	Oshawa	NR	NMD	
Oshawa Public Utilities Commission	Albion Street	Oshawa	NJ	NMD	
Outboard Marine Corp.	910 Monaghan Road	Peterborough	NJ	NMD	
Patons and Baldwin	1001 Roselawn Avenue	Toronto	NR	NMD	
Peel Board of Education	3214 Davis Road	Mississauga	NJ	NMD	
Perna-Flex Industries Ltd.	5 Vanley Crescent	Dowansview	NR	NMD	Flammables present in area
Peterborough Public Utilities Commission	Neal and Bensford	Peterborough	NJ	NMD	
Petro Canada - Research Centre	2489 North Sheridan Way	Mississauga	NR	NMD	
Petro Canada - Trafalgar Refinery	P.O. Box 250	Oakville	NJ	NMD	
Pickering Hydro	1920 Daily Street	Pickering	NR	NMD	
Pittsburg Plate Glass Co.	151 Church Street S.	Alliston	NJ	NMD	
Plax Canada	4041 North Service Road	Burlington	NR	NMD	
Port Hope Hydro - Cavan Street T.S.	Cavan Street	Port Hope	NR	NMD	
Primo Foods Ltd. - Pet Incorporated	56 Huxley Road	North York	S	NOE	
Procor Ltd.	2001 Speers Road	Oakville	NR	NMD	
Quantech Electric Contractor	17 Guardman Road	Thorahill	NR	NMD	
Ralston Purina	2500 Royal Windsor Drive	Mississauga	S	NOE	
Redlaw Industries Inc.		Orillia	NR	NMD	
Regional Municipality of Peel - Department of Public Works	Britannia Landfill Site	Mississauga	NR	NMD	
Richmond Hill Hydro Electric C.	1150 Elgin Mills Road East Box 410	Richmond Hill	NR	NMD	
Rockwell International Canada Ltd.	Dist Rd. #4	Bracebridge	NR	NMD	
Rudolph's Bakeries	390 Alliance Avenue	Toronto	S	NOE	
Ryerson Polytechnical Institute	87 Gerrard Street East	Toronto	S	NOE	
S. Freedman & Sons - Location 1	6-30 Yonnsley Street	Toronto	NR	NMD	Combustibles stored in area
S. Freedman & Sons - Location 2	6-30 Yonnsley Street	Toronto	NR	NMD	
S.A. Armstrong Limited - Toronto	254 Bartley Drive	Toronto	NR	NMD	No PCB Waste
S.A. Armstrong Limited - Scarborough	23 Bertram Avenue (New Site)	Scarborough	NR	NMD	
Salga Associates Ltd.	50 Belfield Drive	Beardale	NR	NMD	
Scarborough Public Utilities Commission	28 Underwriters Road	Scarborough	NJ	NMD	
Scarborough Works Department	1050 Ellesmere Road	Scarborough	NR	NMD	
Scotiabank - Operations and Systems	8 Prince Andrew Pl. West Side	Scarborough	NR	NMD	
Seaburn Metal Products Limited	530 Park Street	Beaverton	NR	NMD	
Sevendon Holdings	1900 Eglinton Ave.	Scarborough	NJ	NMD	
Shakeproof - Div. I.Y.W. Canada Ltd.	1800 Courtney Park Drive East	Mississauga	NR	NMD	
Soanco Steel Tube	14 Holtby Avenue	Brampton	NJ	NMD	
Southam Communications Ltd.	1450 Don Mills Road	Toronto	NR	NMD	
Southam Murray Printing	2973 Weston Road	North York	NJ	NMD	
St. Joseph's Convent	3377 Bayview Avenue	Toronto	S	NOE	
St. Lawrence Starch Co.	141 Lakeshore Rd E	Mississauga	NS	NMD	

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COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
CENTRAL REGION					
St. Marys Cement		Bowmanville	NR	NND	
St. Wilfred's Church	1315 Kipling	Toronto	NR	NND	
Stage West	5400 Dixie Road	Mississauga	NR	NND	
Stelco Inc. - Toronto	3 Windermere Avenue	Toronto	NR	NND	
Sterner Electric	109 Judge Road	Etobicoke	NR	NND	
Superior Machining & Repairs	140 Bown Road	Concord	NR	NND	Stored in wooden box
TBM Seat Belt	140 Bay Street	Midland	NR	NND	Stored in room with wooden floor
Teleglobe Canada	825 Wilmer Avenue	Scarborough	NR	NND	
Tenaco Canada Inc.	Lakeshore Blvd. West	Mississauga	NR	NND	
Textron Ltd.	128 Peter Street	Port Hope	NR	NND	
The Dunston Group	50 Pannan Rd. Southeast corner	Toronto	NR	NND	
The Manufacturers Life Insurance	200 Bloor Street East	Toronto	NR	NND	
Toronto Gear Works	112 Sismet Road	Toronto	NR	NND	
Toronto General Hospital	200 Elizabeth Street	Toronto	S	NOE	
Toronto Hydro - 1 Yonge St., 1st Fl.	1 Yonge St./1st Floor - Vault 4808	Toronto	NR	NND	
Toronto Hydro - 1 Yonge St., 6th Fl.	1 Yonge St./6th Floor - Vault 4785	Toronto	NR	NND	
Toronto Hydro - 145 King	145 King St. W. 17th Fl. Vault 4804	Toronto	NR	NND	
Toronto Hydro - 200 Madison, Location 1	200 Madison Avenue	Toronto	NJ	NND	Wood and oil present
Toronto Hydro - 200 Madison, Location 2	200 Madison Avenue	Toronto	NR	NND	
Toronto Hydro - 2829 Yonge Street	2829 Yonge Street	Toronto	NJ	NND	
Toronto Hydro - 44 Charles West	44 Charles St. W. Vault 4800	Toronto	NR	NND	
Toronto Hydro - 55 Bloor	55 Bloor St. W.	Toronto	NR	NND	
Toronto Hydro - 700 University	700 University Avenue	Toronto	NR	NND	
Toronto Hydro - 76 Adelaide, 17th Fl.	76 Adelaide St. W. 17th Fl. Vlt. 4502	Toronto	NR	NND	
Toronto Hydro - 76 Adelaide, Main Fl.	76 Adelaide W. - Main Fl. Vault 4300	Toronto	NR	NND	
Toronto Hydro - 77 Bloor	77 Bloor Ave. West - 22 Floor Vault	Toronto	NR	NND	
Toronto Hydro - Adelaide Street	233 Adelaide Street	Toronto	NJ	NND	
Toronto Hydro - Canadian Tire, Keele	Canadian Tire - 417 Keele Street	Toronto	NR	NND	
Toronto Hydro - Carlaw Avenue	369 Carlaw Avenue	Toronto	NJ	NND	
Toronto Hydro - Dufferin	1045 Dufferin Street	Toronto	NR	NND	Stored in wooden structure
Toronto Hydro - Jackie St. T.S.	Jackie Street Transformer Stn.	Toronto	NR	NND	No PCB Waste
Toronto Hydro - Orchardview	Orchardview Blvd & Duplex Avenue	Toronto	NR	NND	
Toronto Hydro - Runnymede	518 Runnymede St.	Toronto	NR	NND	No PCB Waste
Toronto Hydro - Soudan	Soudan Avenue opposite #14 Vlt. 4491	Toronto	NR	NND	No PCB Waste
Toronto Hydro - Spadina/Wellington	Spadina S. of Wellington Vault. 4764	Toronto	NR	NND	No PCB Waste
Toronto Hydro - T.H. Pole Yard	Kendall and MacPherson	Toronto	NR	NND	
Toronto Hydro - Yerkesley Stn.	532 Bay Street	Toronto	NJ	NND	
Toronto Hydro - Toronto Hydro Substation	43-45 Bulwer Street	Toronto	NR	NND	
Toronto Hydro - Wiltshire Avenue	13-19 Wiltshire Ave.	Toronto	NJ	NND	
Toronto Transit Commission	400 Greenwood Avenue	Toronto	NR	NND	
Toronto Western Hospital	399 Bathurst Street	Toronto	NS	NND	
Toronto Works Department	586 Lakeshore Blvd.	Toronto	NJ	NND	
Town of Cobourg	490 King Street West	Cobourg	NR	NND	Gas mower in storage
Town of Vaughan	2141 Major Mackenzie Drive	Maple	NR	NND	Stored in wooden trailer
Trans & Northern Pipeline Inc. - Brighton Township	1212-55 Bloor Street West	Toronto	NR	NND	
Trans Canada Pipe Lines - Bracebridge	123 Beaumont Drive	Bracebridge	NR	NND	
Trans Canada Pipe Lines - Compressor Station #127	Lot #17/Conc. 3	Barrie	NR	NND	
Trans Canada Pipe Lines - Compressor Station #136	R.R. 1	Grafton	NR	NND	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR	INSPECTOR	COMMENTS
CENTRAL REGION					
Uniroyal Ltd.	P.O. Box 300	Lindsay	HN	HND	
University of Toronto - Bancroft Street	Bancroft Street	Toronto	S	NOE	Flammables present in area
University of Toronto - Dufferin Street	4925 Dufferin Street	North York	NS	HND	
University of Toronto - Lash Miller Bldg. , 7th Floor	80 St. George Street	Toronto	S	NOE	Flammables & combustibles present
University of Toronto - Lash Miller Parking Lot	80 St. George Street	Toronto	S	NOE	Flammables & combustibles present
Unbridge Hydro	Main Street North	Unbridge	HN	HND	
Vacuna Metallizing Ltd.	22 Carnforth Road	Toronto	HN	HND	
Valpar Inc.	645 Coronation Drive	Scarborough	HN	HND	
Varian Canada Ltd.	45 River Drive	Georgetown	HN	HND	
Vaughan Hydro	S.E. Corner, Hwy.27 & Langstaff Rd.	Maple	HN	HND	
Viscose Canada Inc. - formerly Union Carbide Canada Ltd.	150 Colborne Street East	Lindsay	HN	HND	
Valtec Sawware	1000 Kindred Road	Midland	HN	HND	
Westinghouse	55 Goldthorne Ave.	Etobicoke	HJ	HND	Flammable solvents present
Weston Bakeries	650 Dupont Street	Toronto	S	NOE	Stored in wooden structure
Westroc Industries	2424 Lakeshore West	Mississauga	HN	HND	
Wheel Tracing	1960 Sismet Road	Mississauga	HN	HND	Stored in wooden structure
Whitchurch - Stouffville Hydro	130 Main Street West	Stouffville	HN	HND	
Wilberforce Veneer & Lumber Co.	Lot 34/Conc. XVI - Monmouth Twp.	Haliburton County	HN	HND	Stored in wooden box
Wilson Black Electric	Lot 12/Conc. 7	Innisville Twp.	HN	HND	
Woodbridge Foam Corp.	8214 Espling Avenue North	Woodbridge	HN	HND	
York County Hospital		Newmarket	S	NOE	
York Hydro	2 Bicknell Avenue	Toronto	HN	HND	Varsol stored with oil in drum
York Roman Catholic Separate Sch. Bld.	21 Dunlop Street	Richmond Hill	HN	HND	Stored in wooden structure
York University - Glendon College	2275 Bayview Avenue	North York	S	NOE	
SOUTHEAST REGION					
Alcan Rolled Products Company	Princess Street	Kingston	HJ	HND	
Algonquin College	1385 Woodroffe Avenue	Nepean City	S	NOE	
Almonte Fire Trucks	7 Industrial Road	Carleton Place Toun	HN	NOE	
Armbro Materials & Construction - Harnora Quarry		Harnora	HJ	HND	
Arnprior Hydro	277 Madawaska Blvd.	Arnprior	HN	NOE	
BASP Fibres	200 McRob Street	Arnprior Toun	HN	NOE	
Bakelite Thermosets Ltd.	621 Dundas Street East	Belleville City	HN	NOE	
Bell Canada - Ottawa	78 O'Connor Street	Ottawa	HJ	HND	
Bell Canada - Ottawa	160 Elgin Street	Ottawa City	HN	NOE	
Bell Canada - Radio Relay Station	County Road 22	Naville	HN	NOE	
Bell Canada - Smith Falls	11 William Street	Smiths Falls	HN	NOE	
Bell Northern Research	3500 Carling Avenue	Nepean City	HN	NOE	
Belleville Utilities Commission	459 Sydney Street	Belleville	HJ	HND	
Brockville Public Utilities Commission	25 Front Avenue	Brockville City	HN	NOE	
C.I.L.	3000 Brookdale Avenue	Cornwall City	HN	NOE	
Caldwell Linens	Carmen Road & Hwy 401	Iroquois	HN	NOE	
Canada Packers/Black Diamond	Lot 8, Conc. 2	Thurlow Twp.	S	NOE	
Canada Veneers	River Road	Penbroke City	HN	NOE	
Carleton University - Maintenance Building		Ottawa	HJ	HND	
Celanese Canada Inc.	P-Lots 24/25, Conc 1	Ernestown Twp.	HJ	HND	
Chronanco (Pinninco)	Lot 20, Conc. 7	Ross Township	HN	NOE	
Corby Distilleries	Lot 8, Conc. 3	Thurlow Twp.	S	NOE	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
SOUTHEAST REGION				
Cornwall Electric Utility	1001 Sydney Street	Cornwall	NJ HND	
Courtaulds Fibres (Textiles)	1100 Montreal Road	Cornwall	NJ HND	
Covall MFG.	700 Cumberland Street	Cornwall City	S NOE	
Department of National Defence - C.P.D. Ottawa		Ottawa, Ontario	NJ HND	
Department of National Defence - CFB Petawawa	CFB Petawawa	Petawawa Twp.	NN NOE	
Dibblee Construction Ltd.	1600 Westbrooke Road	Kingston Twp.	NN NOE	Stored in wooden structure
Dominion Textile Inc.	Off Avonmore Road	Long Sault	NJ HND	
Dominion Textiles Inc. - Long Sault Fabrics Plant	Beside Hwy. #2	Cornwall City	NN NOE	
Dontar Pine Papers	800 Second St. W.	Cornwall	NJ HND	
Dontar Packaging	Marmora Street	Trenton City	NN NOE	
Duplate (PPG)	545 Industrial Blvd.	Hawkesbury Twp.	NN NOE	
Dupont Canada Inc. - Kingston	P.O. Box 2100	Kingston Twp.	NJ HND	
Dupont Canada Inc. - Mattland Site	P.O. Box 2200	Augusta Twp.	NJ HND	
E.B. Eddy Forest Products Limited	6 Booth Street	Ottawa	NJ HND	
Energy Mines Resources - 556A Booth Street	556A Booth Street	Ottawa City	NN NOE	
Energy Mines Resources - 568 Booth Street	568 Booth Street	Ottawa City	NN NOE	
Environment Canada	3439 River Road	Gloucester	NN NOE	
Frontenac Electric Services Ltd.	721 Progress Avenue	Kingston Twp.	MS HND	
Gloucester Hydro	Leitrim	Gloucester	NJ HND	
Hastings County Board of Education	315 Bridge Street West	Belleville City	S NOE	
Hawkesbury Hydro - Municipal Station #1	290 McGill Street	Hawkesbury Twp.	NN NOE	
Hershey Chocolate	Hershey Drive	Smiths Falls Twp.	S NOE	
Hodgins City Centre	812 Pitt Street	Cornwall City	NN NOE	
Huyck Canada Ltd.	Kenwood Place	Arnprior Twp.	NN NOE	
IVACO Rolling Mills	Beside Hwy. #17	L'Orignal Village	NN NOE	
Janeco Manufacturing	855 Edward Street	Prescott	NN NOE	
Kanata Hydro	100 Maple Grove Road	Kanata City	NN NOE	
Kingston Public Utilities Commission	211 Counter Street	Kingston City	NN NOE	
Lafarge Canada Inc. - (Standard Aggregates)	R.R. 4	Belleville	NJ HND	Leaks visible; Combustibles pres.
Liquor Control Board of Ontario	1980 Bank Street	Ottawa City	NN NOE	
Nadawaska Mines Ltd.		Bancroft	NJ HND	
Nauchester Plastics Limited	900 Queen Street	Gananoque	NJ HND	
Markerry Electric	126 Ninth Street W.	Cornwall	NJ HND	Wood present in area
Ministry of Transportation - Greely	Lot 8, Conc. 5 (Greely)	Osgoode Twp.	NN NOE	
Mobil Chemical Canada Ltd.	323 University Avenue	Belleville City	NN NOE	
National Research Council Canada - Building M-51	Montreal Road	Ottawa	NJ HND	
Nitrochem Inc. - P.O. Box 681	Highway 2	Mattland	NJ HND	
Northern Telecom Canada Ltd. - Belleville	250 Sidney Street	Belleville	NN NOE	
Northern Telecom Canada Ltd. - Kingston	700 Gardiners Road	Kingston Twp.	NN NOE	
Ontario Hydro - Arnprior Office	277 Nadawaska Blvd.	Arnprior	NJ HND	
Ontario Hydro - Bancroft	Highway 28 South	Bancroft	NJ HND	
Ontario Hydro - Belleville	171 Centre Street	Belleville	NJ HND	
Ontario Hydro - Brockville	26 Front Street West	Brockville	NJ HND	
Ontario Hydro - Cheneaux G.S.	Hwy 453, E of Cheneaux	Haley Station	NJ HND	
Ontario Hydro - Cobden AO	Highway 17	Cobden	NJ HND	
Ontario Hydro - Frankford	Highway 33	Frankford	NJ HND	
Ontario Hydro - Frontenac T.S.	938 Division Street	Kingston	NJ HND	
Ontario Hydro - Hawkesbury	N.S. 1	Hawkesbury	NJ HND	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
SOUTHEAST REGION				
Ontario Hydro - Hawthorne Transformer Station	Russell & Bridge Road	Ottawa	NJ	MND
Ontario Hydro - Kaladar	Lot 29, Conc. 7	Kaladar	NJ	MND
Ontario Hydro - Lennox PGS, Lot 7, Conc. 1	Highway 33	S. Frdrichsburg	NJ	MND
Ontario Hydro - Merivale Transformer Station	31 Woodfield Cres.	Nepean	NJ	MND
Ontario Hydro - Nepean	106 Colonade Road	Nepean	NN	NOE
Ontario Hydro - Perth	Highway 7	Perth	NJ	MND
Ontario Hydro - Picton	Box 1010	Picton	NJ	MND
Ontario Hydro - Shornby	2199 Halsey Drive	Shornby	NJ	MND
Ontario Hydro - South March YS	Lot 7, Conc. 3	Kanata	NJ	MND
Ontario Hydro - St. Isidore De Prescott T.S.	Off Hwy. #417	St. Isidore Village	NN	NOE
Ontario Hydro - St. Lawrence Transformer Station	Power Dan Drive	Corwall City	NN	NOE
Ontario Hydro - Sydenham Road	1037 Sydenham Road	Kingston	NJ	MND
Ontario Hydro - Tweed	Highway 37 North	Tweed	NJ	MND
Ontario Hydro - Vanleek Hill	Queen Street	Vanleek Hill	NJ	MND
Ontario Hydro - Winchester	St. Lawrence Street	Winchester	NJ	MND
Ontario Hydro Site - Wapane Distribution Station	Lot 22, Conc. 1 (Hwy 41)	Wapane Town	S	NOE
Ottawa Board of Education	605 Bronson Avenue	Ottawa City	S	NOE
Ottawa Hydro - Ottawa	3025 Albion Road	Ottawa	NJ	MND
Paperboard Industries Corporation - Trant Valley Paper	Lot 1, Conc. 3	Sidney Twp.	NN	NOE
Poli-Twine	665 Dundas Street East	Belleville City	NN	NOE
Procter & Gamble Incorporated	335 University Ave.	Belleville	NJ	MND
Regional Municipality of Ottawa-Carleton	Billings Bridge Annex	Ottawa City	NN	NOE
Renfrew County Board of Education	59 Ottawa Street	Arnprior Town	S	NOE
Renfrew Hydro - Opeongo	59 Opeongo Road	Renfrew Town	NN	NOE
Smiths Falls Hydro	11 Market Street	Smith Falls Town	NN	NOE
Strathcona Paper	Lot 10, Conc. 1	Camden East Twp.	NN	NOE
Thompson (Canada) Rivet	290 4th Street	Gananoque	NN	NOE
Town of Smiths Falls	77 Beckwith Street	Smiths Falls	NN	NOE
Trans Canada Pipe Lines - Joyceville	RR 1	Joyceville	NN	NOE
Trans Canada Pipe Lines - Kingston	RR 6	Kingston	NN	NOE
Transport Canada - Ottawa International Airport	Alert Road	Gloucester City	NN	NOE
Trenton Public Utilities Commission	30 Pelham Street	Trenton City	NN	NOE
Warner's	2355 St. Laurent Blvd.	Ottawa	NN	NOE
Westinghouse Canada	637 Justice Drive	Kingston Twp.	NN	NOE
NORTHEAST REGION				
114507 Canada Ltd.		Beever Twp	NJ	NOE
Abitibi-Price - Salvage Building		Iroquois Falls	NJ	MND
Adams Mines	Box 877	Timmins	NN	NOE
Algoma Steel Corp.	Queen Street West	Sault Ste Marie	NJ	MND
Bell Canada - Sault Ste. Marie	311 Queen Street East	Sault Ste. Marie	NN	NOE
Capreol Hydro	Railway Street	Capreol	NN	NOE
Casuar Beton Universel - (Can Chib Property)		Natachewan	NN	NOE
Chapleau Forest Produces (1981)	Box 220	Chapleau	NN	NOE
City of Sudbury - Gerry McCulligh	500 Regent South	Sudbury	NJ	MND
Denison Mines - Cannel		Elliot Lake	NN	NOE
Dubreuil Brothers Ltd.		Dubreuilville	NN	NOE
E.B. Eddy Wood Products - Haina Centre Saw Mill Operation		Haina Centre	NJ	NOE

Stored in wooden structure

Stored in wooden structure

Stored in wooden structure

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MIOR	INSPECTOR	COMMENTS
NORTHEAST REGION					
E. B. Eddy Wood Products Ltd. - Kapanola Mill	Station Road	Espanola	NJ	NOE	
Elk Lake Planing Mill		Elk Lake	NJ	NMD	
Explosives Technologies International	Box 900	North Bay	NN	NOE	
Falconbridge Ltd. - Falconbridge		Falconbridge	NJ	NMD	
Falconbridge Ltd. - Onaping		Onaping	NJ	NMD	
Giant Yellowknife Mines - Schumacher Mine		Timmins	NJ	NMD	
Great Lakes Power - Location 1	162 Northern Avenue	Sault Ste Marie	NJ	NMD	
Inco Ltd. - Creighton Mine		Copper Cliff	NJ	NMD	
Inco Ltd. - Murray Mine		Copper Cliff	NJ	NMD	
J.M. Ore Dressing	290 Railway Street	Timmins	NN	NOE	
J.S. Redpath	690 McKeown	North Bay	NJ	NMD	
Jack Kona Ltd.		Cobalt	NJ	NMD	Stored in wooden structure
K.B. Thompson	1494 Southview Dr.	Sudbury	NJ	NMD	
Kapuskasing Board of Education - (Drancon Jubilee Public School)	22 King Street	Kapuskasing	S	NOE	
Kapuskasing Public Utilities Commission	Brunetville Road	Kapuskasing	NN	NOE	Stored in wooden structure
Kearock Tools Inc.	33 Memorial Drive	North Bay	NN	NOE	
Kidd Creek Mines - Kidd Metallurgical Site		Timmins	NJ	NMD	
Lac Minerals - Lakeshore Mine		Kirkland Lake	NJ	NMD	
Lennon Line Contractors	81 Railway	Cache Bay	NN	NOE	Wood present in area
Longyear Canada Inc.	Box 330	North Bay	NN	NOE	
Malette Kraft Pulp and Power		Smooth Rock Falls	NN	NOE	
Malette Woods Products		Dymond Twp.	NN	NOE	Some drums are damaged
Ministry of Government Services	Hollinger Lane	Schumacher	NN	NOE	
Ministry of Transportation - Dymond Twp.		Dymond Twp.	NN	NOE	
Ministry of Transportation - Sault Ste. Marie	71 Garden River Road	Sault Ste. Marie	NN	NOE	
Ministry of the Environment - Utility Operations	199 Larch Street	Sudbury	NN	NOE	
Moosonee Development Area Bd.		Moosonee	NJ	NOE	
Noranda Inc. - Langmuir Site		Timmins	NJ	NMD	
North Bay Hydro	1350 Fisher Street	North Bay	NN	NOE	
Northern Canadian Enterprises Ltd. - Coppercorp Mine		Ryan Twp.	NJ	NMD	
Ontario Hydro - Blind River	Highway 17	Blind River	NJ	NMD	
Ontario Hydro - Falconbridge Road	Hwy. 17, Lot 2, Conc. 6	Sudbury	NJ	NOE	
Ontario Hydro - Graham Service Centre	590 Graham	North Bay	NJ	NMD	
Ontario Hydro - Hadley Hill Yard, Location 1		New Liskard	NJ	NMD	
Ontario Hydro - Hadley Hill Yard, Location 2		New Liskard	NJ	NMD	
Ontario Hydro - Harmon Twp.		Harmon Twp.	NN	NOE	
Ontario Hydro - Kapuskasing Service Centre, Loc. 1	Government Road	Kapuskasing	NJ	NMD	
Ontario Hydro - Kapuskasing Service Centre, Loc. 2		Kapuskasing	NJ	NMD	
Ontario Hydro - Kirkland Lake TS, Location 1	Government Road East		NJ	NMD	
Ontario Hydro - Little Current S.C.		Twp. of Howland	NJ	NOE	Stored in wooden structure
Ontario Hydro - Little Long GS		Little Long	NJ	NMD	
Ontario Hydro - Martindale Site	2199 Maley Dr.	Sudbury	NJ	NMD	
Ontario Hydro - McVittie G.S.	2199 Maley Drive	Sudbury	NJ	NOE	
Ontario Hydro - Moosonee DS		Moosonee	NJ	NOE	
Ontario Hydro - New Liskard		New Liskard	NN	NOE	
Ontario Hydro - Otter Rapids		Pitt Twp.	NN	NOE	
Ontario Hydro - Parry Sound SC	North Road	Parry Sound	NJ	NMD	
Ontario Hydro - Pinard Twp.		Pinard	NN	NOE	

APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MINOR INSPECTOR	COMMENTS
NORTHEAST REGION				
Ontario Hydro - Thessalon	R.R. 3	Thessalon	NJ	HND
Ontario Hydro - Timmins Service Centre	353 Moneta Drive	Timmins	NJ	HND
Ontario Hydro - Trout Lake TS	Location 2	Trout Lake	NJ	HND
Ontario Hydro - Trout Lake TS, Location 1		Trout Lake	NJ	HND
Ontario Hydro - Warren		Twp. of Botter and Dunnet	NJ	NOE
Placer Dome - Dome Mine Site - South Porcupine		Timmins	NJ	HND
Benaki Gold Mines Ltd.	Box 65	Nissanabe	NN	NOE
Rio Algon - Quirke Mine		Elliott Lake	NJ	HND
Rio Algon - Nordic Mine Site	Box 1500	Elliott Lake	NN	NOE
Sault Ste Marie Public Utilities Comm.	510 Second Line East	Sault Ste Marie	NJ	HND
Shearman Mine	Box 217	Tenagami	NN	NOE
Spruce Falls Pulp & Paper	Government Road	Kapuskasing	NN	NOE
Sudbury Hydro - Gerry McCulligh	500 Regent Street	Sudbury	NJ	HND
Telemedia Communications Inc. - Transmitter Site	South Lane Road	Sudbury	NN	NOE
Trans Canada Pipelines - North Bay	Box 776	North Bay	NN	NOE
Union Carbide Canada Ltd. - Linde Division	1 Patricia Street	Sault Ste. Marie	NN	NOE
Waterboard Corp.		Timmins	NN	NOE
Walkerton Public Utilities Commission - Location 3	4 Park Street	Walkerton	NJ	HND
NORTHWEST REGION				
Abitibi-Price - Port Williams Division		Thunder Bay	NN	NOE
Abitibi-Price - Thunder Bay Div.		Thunder Bay	NJ	HND
Barrick Rail Inc.	359 Burbridge Street	Thunder Bay	NN	NOE
Boise Cascade Canada Limited - Kenora	504 Ninth St. W.	Kenora	NJ	NOE
Boise Cascade Canada Ltd.	145 - 3rd Street W.	Port Frances Y.	NJ	HND
CB Rail - Thunder Bay North Yard		Thunder Bay	NN	NOE
Canada Malting	Box 2179	Thunder Bay	S	NOE
Canadian Pacific Forest Products Ltd. - Location 1	Heebing Avenue	Thunder Bay	NN	HND
Canadian Pacific Forest Products Ltd. - Location 2	Heebing Avenue	Thunder Bay	NJ	HND
Canadian Pacific Forest Products Ltd. - Location 3	Heebing Avenue	Thunder Bay	NJ	HND
Canadian Pacific Forest Products Ltd. - Location 4	Heebing Avenue	Thunder Bay	NJ	HND
Canadian Pacific Forest Products Ltd. - Location 5	Heebing Avenue	Thunder Bay	NJ	HND
Consolidated Maybrun Mines - Atitkwa Lake Property		Atitkwa Lake	NJ	NOE
D&L Estates		Armstrong	NJ	NOE
Dickenson-Sullivan Joint Venture - The Arthur W. White Mine		Balmertown	NN	NOE
Dontar Packaging Ltd.		Red Rock	NN	NOE
Dryden Hydroelectric Commission		Rainy River	NN	NOE
Environment Canada - Environment Canada Weather Station		Big Trout Lake	NN	NOE
Port Frances Public Utilities Commission		Port Frances	NJ	HND
Great Lakes Forest Products Ltd.		Dryden	NJ	HND
Inco Metals		Shebandowan	NJ	HND
James River Marathon Ltd.		Marathon	NJ	HND
Kenora Hydro	215 Mellick Avenue	Kenora	NN	NOE
Kimberly Clark	Hill Road	Terrace Bay	NJ	HND
Lac Minerals - Hemlo		Bombay Twp.	NJ	HND
Madsen-Rowland Mines Ltd.	Red Lake	Baird Twp.	NJ	HND
Manitoba Pool Elevators - Pool #1	160 Maureen Street	Thunder Bay	S	NOE
Manitoba Pool Elevators - Pool #3	Marine Street	Thunder Bay	S	NOE

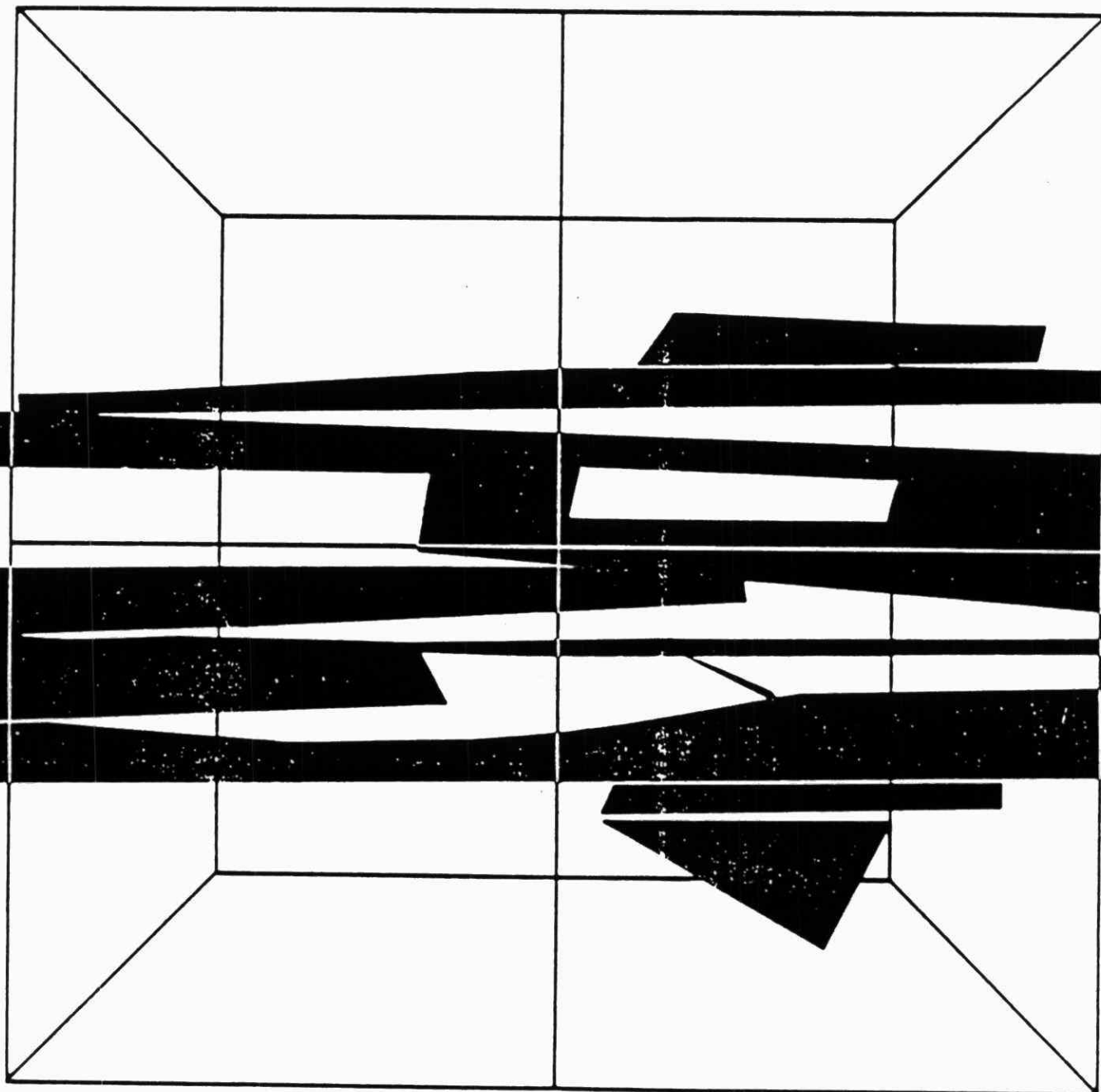
APPENDIX A - SITES SURVEYED

COMPANY	STREET	CITY	MAJOR/MIOR	INSPECTOR	COMMENTS
NORTHWEST REGION					
Hattabi Mines Ltd.		Ignace Twp.	NJ	NMD	
McKenzie Forest Products		Hudson Twp.	HN	NCE	
Ministry of Environment - Thunder Bay	421 James Street South	Thunder Bay	HN	NOR	
Ministry of Transportation & Comm.	Hapleward Road	Thunder Bay	HN	NOR	Wood present in area
Minnova Inc. - Winston Lake Project		Schreiber	HN	NOE	
Boranda Minerals - GECO Division	Box 100	Manitouwadge	HN	NOE	
Ogilvie Mills Ltd. (I.G.P.) - P.O. Box 37	675 New Vickers St.	Thunder Bay	NJ	NMD	
Ontario Hydro - Atikokan		Atikokan	NJ	NMS	
Ontario Hydro - Dryden T.S.		Dryden	NJ	NMD	
Ontario Hydro - Fort Frances	8th Street	Fort Frances	NJ	NMD	
Ontario Hydro - Geraldton S.C.	Sunset Drive	Geraldton	HN	NOE	
Ontario Hydro - Kenora	Rabbit Lake Road	Kenora	NJ	NMD	
Ontario Hydro - Kenora Transformer Station	Jones Road	Kenora	HN	NOR	Some drums deteriorating
Ontario Hydro - Lakehead TS, Location 1	Lakeshore Drive	Thunder Bay	NJ	NMD	
Ontario Hydro - Lakehead TS, Location 2	Lakeshore Drive	Thunder Bay	NJ	NMD	
Ontario Hydro - Lakehead TS, Location 3	Lakeshore Drive	Thunder Bay	NJ	NMD	
Ontario Hydro - Marathon TS		Marathon	NJ	NMD	
Ontario Hydro - Thunder Bay	205 Burwood Road	Thunder Bay	NS	NCE	
Ontario Hydro - Water Power Lease 2		Bar Falls	NJ	NMD	
Port Arthur Shipbuilding Co. - Electrical Substation	Box 2690	Thunder Bay	HN	NCE	
Proboard	P.O. Box 1600	Atikokan	NJ	NMD	
Provincial Papers - div of Abitibi Price	Marine Drive	Thunder Bay	NJ	NMD	
Rainy River Town		Rainy River	HN	NOE	Equipment resting on plywood
Richardson Terminals	McDonnell Street	Thunder Bay	HN	NOE	
Saskatchewan Wheat Pool - Yern Elevator Division	Waterford & Dunlop	Thunder Bay	S	NOE	
Schreiber Hydroelectric Commission - Scotia Street Warehouse	Scotia Street	Schreiber	HN	NOE	No PCB Waste
Shearment Recycling Industries		Thunder Bay	HN	NOE	
Steep Rock Resources		Atikokan	NJ	NMD	
Stelco Griffith Mines		Red Lake	NJ	NMD	
Thunder Bay Correction Centre	Highway 861 South	Thunder Bay	HN	NOE	
Thunder Bay Hydro	37 Front Street	Thunder Bay	NJ	NOE	
Trans Canada Pipeline - Trans Canada Station		Nipigon	HN	NOE	
Unex Thierry Mine - Pickle Lake		Central Pat.	NJ	NMD	
Vestingshouse Canada Inc.	635 Mountdale Avenue	Thunder Bay	HN	NOE	

APPENDIX B
MANUAL FOR THE MANAGEMENT OF
WASTES CONTAINING PCBs

Manual for the Management of Wastes Containing Polychlorinated Biphenyls (PCBs)

Manual EPS 9/HA/1
February 1987



Environment
Canada

Environnement
Canada

Canada

**MANUAL FOR THE MANAGEMENT OF WASTES CONTAINING POLYCHLORINATED
BIPHENYLS (PCBs)**

**Industrial Programs Branch
Environmental Protection
Conservation and Protection
Environment Canada**

**based on report to the
Industrial Programs Branch
by**

**M.M. Dillon Ltd.
Consulting Engineering and Planners
Toronto, Ontario
(May 1985)**

**Manual EPS 9/HA/1
February 1987**

3 STORAGE

3.1 General

Since there are currently no PCB disposal facilities in Canada, storage of PCB wastes is the only alternative. The siting, construction and operation of a PCB storage facility should comply with all federal and provincial environmental, occupational health and safety requirements, as well as with any applicable municipal by-laws and codes. Transfer of PCB equipment or waste to secure storage should take place as soon as possible after equipment is removed from service or a PCB waste is generated.

Between the time of generation of the waste and its placement in storage, all due care should be taken to prevent accidental release of PCBs. In the case of PCB equipment, security during interim storage should at least be equivalent to that provided while the equipment was in service.

PCB storage facilities may be built in various sizes. Regardless of size, the same basic concerns should be addressed whether the facility will house a single out-of-service PCB transformer on existing premises or whether it will be a commercially operated facility storing thousands of kilograms of PCBs. In all cases, precautions should be taken to minimize the risk of accidental release of PCBs, and contingency measures, such as spill containment, fire control and emergency response training for personnel, all appropriate to the degree of hazard, should be in place to deal effectively with an emergency should it occur.

In the design of storage facilities, consideration should be given to the quantity and type of PCB equipment or waste to be stored and the frequency of its receipt or transfer. Facilities designed to store only solids, such as empty transformers, do not require as elaborate spill containment as those storing PCB liquids because there is less possibility of PCB leakage. Good judgement, based on individual needs and type and degree of hazard presented, should always be exercised in siting, designing and operating storage facilities.

PCB storage areas should be well identified with signs such as the General Warning label shown in Section 4 or larger signs where appropriate.

3.2 Siting

A PCB storage facility should be located close to the point of generation of the PCB waste. This is to minimize the distance the PCB waste is transported and

thereby decrease the risk associated with transportation. It is realized that this is not always practical for owners of many PCB-containing units spread over a large area. These owners, such as utilities, may prefer centralized storage facilities.

In all cases, PCB storage facilities should be separated from processing and manufacturing activities and only personnel responsible for the operation of the PCB storage facility should be allowed into the storage area. It is recommended that PCB wastes be stored indoors. However, if outdoor storage is unavoidable, the storage area should be covered with a waterproof barrier and should have a collection system for rain water, which could be contaminated with PCBs. Where only PCB-contaminated mineral oil equipment is being stored outside, it may be stored without specially built waterproof barriers or rain water containment systems providing:

- the equipment is structurally sound and sealed from the weather;
- the equipment is identified as being PCB contaminated;
- the stored equipment is maintained, monitored, and secured to the same degree as in-service electrical equipment;
- absolute quantities of PCBs are such that there is no potential for significant environmental contamination in the event of a leak; and
- spill pans and other appropriate spill protection equipment and procedures are utilized during the handling or pumping of liquids.

Small amounts of PCB wastes may be stored in international shipping containers with a suitable steel pan as a floor in lieu of a separate storage building.

3.3 Design

3.3.1 Ventilation. Indoor storage of PCBs provides protection from the weather, permits the control of temperature, and improves the security of the storage. All storage areas should be adequately ventilated and are subject to the regulations and guidelines of the appropriate provincial and federal occupational safety and health agencies. If a mechanical ventilation system is used, it should be controlled by a switch outside the storage room and be energized for several minutes prior to entry. Air intake and exhaust outlets for ventilation systems should be on the building exterior.

3.3.2 Containment. Storage areas should be designed to ensure that PCBs will not be released to the environment. Floors should be made of steel or concrete and equipped with continuous curbing. Concrete should be sealed with a PCB-resistant sealant, such as

a two-component amine-cured epoxy paint similar to Plasite 7122 (Corrosion Services Company Ltd.), Flakeline 660 (Ceilcote Canada Ltd., Toronto) or Valspar 78TC (Valspar Ltd., Toronto). It is recommended that the sealant coating be inspected periodically to check its integrity. The curbing for multi-equipment or container storage should be designed to accommodate twice the liquid content of the largest piece of equipment or container or 25% of the total volume of PCB liquid at the location, whichever is larger. For single-unit storage, accommodation for 125% of the container's volume is acceptable. A 15-cm-high curbing will fulfill the above specifications in most instances, but the curbing may be designed to any height provided it will contain the PCB liquid to the specifications outlined above. All floor drains, pumping systems and sumps leading from the PCB storage location should be sealed to prevent the spread of PCBs from the storage area in the event of a spill. No curbing is required where only solid waste is stored.

3.3.3 Prevention of Water Contamination. Storage facilities should be located and engineered so that PCBs will not be released in the event of flood, storm, or runoff from fire fighting. PCB storage facilities that have outdoor tanks and piping should have the means to manually divert storm water runoff from the site to a holding pond in the event of an emergency. If a PCB release does occur, the runoff collected in these containment systems should be prevented from entering the drainage system until it has been established that the concentration of PCBs does not exceed acceptable limits specified by the appropriate authorities.

3.4 Operation of Storage Facility

PCB wastes should be packaged so as to ensure that the potential for leakage or spills is kept to a minimum, e.g., small pieces of equipment, such as ballasts or capacitors, should be stored in drums or equivalent containers. The containers should be clearly labelled (see Chapter 4) and marked with the date of entry to storage. PCB containers should be placed on pallets and stored where possible in chronological order (as received) to facilitate transfer to a disposal facility. Sufficient space should be left between stored containers to permit inspection and allow the safe movement of vehicles such as forklifts. It is recommended that individual containers not be stacked, unless they are empty, specially designed, or strapped for stability. Askarels should be segregated from combustibles such as Varsol rinsing fluid, oil, soaked rags, and contaminated mineral oil.

Drums used for storing contaminated equipment or solids should be 200-L, No. 18 gauge (or heavier) steel, fitted with removable steel lids and gaskets made of PCB-

resistant material, such as nitrile rubber, cork or Teflon. Drums for the storage of PCB liquids should be double bung, 200-L No. 16-gauge (or heavier) steel.

Large-capacity PCB storage facilities should have a central receiving area where PCB equipment and wastes are loaded and unloaded from transport vehicles. This receiving area should also have a PCB-impervious floor and a containment system to properly control any spills during loading or unloading. The containment system could take the form of impervious dykes or grated drainage trenches connected to an isolated sump. This type of receiving area and containment system should be considered for a large centralized storage facility receiving mainly PCB liquids.

The storage requirements and operational procedures outlined above are directed to the storage of liquids. Requirements for the storage of solids including drained equipment and containers could be less stringent; however, good technical judgement in conjunction with these recommendations should be used.

3.5 Security

3.5.1 Access. Access to a PCB storage area should be restricted to authorized personnel. No other waste should be stored within the area and no manufacturing or other activity should be undertaken. A PCB storage facility may be housed in an occupied building but it should be isolated from other activities. If an isolated room is not available, the facility should be enclosed by a 2-m-high woven mesh fence, or equivalent, with lockable gates. The fence should be clearly labelled to warn people of the presence of PCBs. Personnel protection equipment and clean-up kits for PCB spills (see Section 7.3) should be placed within easy access of the storage area.

3.5.2 Inspection. Askarel liquids in storage should be inspected for leakage monthly. Where only PCB-contaminated oil is stored, inspection every two months is considered adequate. Where only solids or drained equipment is stored, three-month inspection intervals are adequate. Any leaking or deteriorating equipment or containers should be immediately replaced. The facility should be scrupulously maintained. Floors and ventilation systems should be regularly inspected and repaired as required.

3.5.3 Personnel Training. Personnel working at the facility should be made clearly aware of the hazards of PCBs and trained in the use of protection equipment and clean-up procedures. The training programs should be made available to provincial government environmental and labour personnel to give them the opportunity to review and comment on their contents.

3.6 Fire Protection

An indoor central PCB storage facility that contains combustible materials should be equipped with a fully operative fire alarm system and suitable fire extinguishers, such as chemical foam, halon, carbon dioxide, or nitrogen flood. Water should never be used as an extinguishing agent. A system that closes ventilation systems at the first sign of fire is recommended, particularly for large facilities. The operator of a storage facility should contact the local fire department and forewarn them of the presence of PCBs at the storage facility. An updated inventory of wastes and their location should be provided. In this way, the fire department will be prepared to handle a PCB-related fire. Development of a fire control plan and the training of personnel on actions to take during a fire is recommended. For further details see Chapter 7.

4 LABELLING AND RECORD KEEPING

4.1 General

This chapter covers labelling and record-keeping recommendations for in-use and out-of-service PCB equipment, and for PCB liquid and solid waste.

The purposes of labelling are:

- to provide immediate identification of PCB equipment and PCB wastes;
- to alert company officials that the labelled equipment or waste requires special handling and disposal considerations;
- to alert personnel to the presence of PCBs in the event of a spill or leakage; and
- to assist company, provincial and federal officials in maintaining PCB inventories.

The purpose of record keeping is to keep track of PCB equipment and wastes until the PCBs are disposed of.

All equipment and wastes that contain PCBs at concentrations greater than 50 ppm should be labelled. Some owners may find it prudent to also label equipment and wastes that contain PCBs at concentrations of less than 50 ppm even though, strictly speaking, they are not defined as PCB wastes. The reason for this is that spills or leakages could conceivably result in high cleanup costs under certain circumstances and because federal regulations specify the maximum permissible concentration of PCBs in oils for dust control at 5 ppm (3).

The labelling of in-service equipment is voluntary; however, it is strongly recommended by Environment Canada and, to date, industry has cooperated fully. Additional guidance on the labelling of in-service equipment is provided in reference (12).

Where PCB users have developed their own labelling and reporting procedures, these procedures should incorporate the functions of the system described in this chapter.

Under the Transportation of Dangerous Goods Regulations, safety marking is mandatory for the offering for transport and transportation of PCB wastes and equipment. The Transportation of Dangerous Goods Regulations are discussed in Chapter 5.

4.2 Labelling of In-service Equipment

The proper labelling (12) of in-service PCB equipment will ensure that it is correctly identified when it enters the waste stream. The PCB label also alerts people to the presence of PCBs in the equipment and assists in inventory control while in-service, and later, during handling, storage, and disposal.

4.2.1 Askarel Equipment. Environment Canada recommends four labels for PCB equipment (Figures 1 to 3). The first two (Figure 1) are serialized and have an Environment Canada registration number at the bottom. These numbers allow Environment Canada to keep track of the amounts and locations of askarel equipment and liquids. All askarel equipment and containers of sufficient physical size to take a label should be labelled with one of the two serialized labels.

The label shown in Figure 1a) measures 15 x 15 cm and should be used on large askarel equipment and containers, such as transformers and drums. Once affixed, the label should only be removed if the equipment or container has been decontaminated and EC is satisfied that the PCB concentration is less than 50 ppm.

The label shown in Figure 1b) measures 7.6 x 7.6 cm and should be used for small items, such as capacitors, where size permits. Where a number of smaller pieces of PCB equipment are found together, such as a capacitor bank, one label may be used for the entire group; however, when a capacitor is removed from the bank for disposal, it should be labelled. Equipment that contains small PCB articles, for example a radio transmitter that contains PCB capacitors, does not have to be labelled.

A non-serialized version of the 15 cm x 15 cm label is shown in Figure 2. It is to be used as a general warning label and should be placed in a clearly visible position at the entrances to locations where PCB equipment is found. Some examples of these locations are fenced storage compounds, electrical rooms and transformer vaults.

4.2.2 PCB-contaminated Equipment. The PCB concentration in PCB-contaminated equipment (e.g., a PCB-contaminated mineral oil transformer) is much lower than that found in equipment using askarels. Nevertheless, if the PCB concentration is greater than 50 ppm, this equipment poses a potential hazard and is subject to the same regulations (Chlorobiphenyl Regulations No. 1 and No. 3) that apply to equipment containing askarels. When it is suspected that a piece of equipment may be contaminated with PCBs, and an activity is to be carried out to which the regulations apply, then the fluid contained in the equipment should be tested. If PCBs are found, a PCB warning label for contaminated equipment should be placed on the equipment. This label (Figure 3) has space for entering the following information: PCB concentration, date of analysis, company name and the signature of an authorized company official. This label, or an appropriate equivalent, should also be used to identify drums, tanks or packaging where contaminated mineral oils, rinsing fluids, or other low level PCB contaminated wastes are stored.

All of the labels discussed above are available in limited quantities from the regional and district offices of Environment Canada (see Appendix F).



a) Label for Large Equipment



b) Label for Small Equipment

FIGURE 1 LABELS FOR PCB EQUIPMENT



FIGURE 2 PCB GENERAL WARNING LABEL

ATTENTION	
CONTAMINATED WITH PCBs (POLYCHLORINATED BIPHENYLS)	CONTAMINÉ PAR BPCs (BIPHÉNYLES POLYCHLORÉS)
THE CONTENTS OF THIS EQUIPMENT ARE CONTAMINATED WITH PCBs, AN ENVIRONMENTAL CONTAMINANT SCHEDULED AND REGULATED UNDER THE ENVIRONMENTAL CONTAMINANTS ACT. IN CASE OF ACCIDENT, SPILL OR FOR DISPOSAL INFORMATION, CONTACT THE NEAREST OFFICE OF THE ENVIRONMENTAL PROTECTION SERVICE, ENVIRONMENT CANADA.	LE CONTENU DE CET APPAREIL EST CONTAMINÉ PAR DES BPCs, UN CONTAMINANT ENVIRONNEMENTAL ANNEXÉ ET RÉGLEMENTÉ EN VERTU DE LA LOI SUR LES CONTAMINANTS DE L'ENVIRONNEMENT. EN CAS D'ACCIDENT, OU DE DÉVERSEMENT, OU POUR SAVOIR COMMENT LES ÉLIMINER, CONTACTER LE BUREAU LE PLUS PROCHE DU SERVICE DE LA PROTECTION DE L'ENVIRONNEMENT, MINISTÈRE DE L'ENVIRONNEMENT.
PCB CONCENTRATION (parts per million) CONCENTRATION DE BPC (parties par million) _____	
DATE ANALYZED DATE D'ANALYSE _____	
COMPANY NAME NOM DE LA COMPAGNIE _____	
AUTHORIZED COMPANY OFFICIAL AGENT OFFICIEL AUTORISÉ _____	

FIGURE 3 PCB WARNING LABEL FOR CONTAMINATED EQUIPMENT

4.3 Labelling of PCB Waste

All labels applied to in-service equipment according to the recommendations given previously should be left on that equipment when it becomes waste material, unless liquids have been decontaminated to less than 50 ppm of PCBs. Additional safety marking requirements for PCB wastes, pursuant to the Transportation of Dangerous Goods Regulations, are described in Chapter 5.

4.4 Record Keeping and Retention

4.4.1 Record Keeping for In-service Equipment. Environment Canada maintains an inventory of all askarel and PCB-contaminated equipment that has been labelled. During inspections, this equipment may be identified, checked against the inventory list, and have its status updated if necessary. The Environment Canada office in the appropriate region should be informed whenever an organization alters the status of a piece of PCB equipment, e.g., if it is taken out of service, re-located, stored, decontaminated, or disposed of. See Appendix F for a list of Environment Canada offices where notification can be made.

4.4.2 Record Keeping in Storage and Disposal. Each owner or operator of a facility for the storage of PCB wastes should keep records which include:

- the date and source of PCB waste transferred to storage and the date and destination of waste leaving storage;
- a description of the wastes, including the mass of PCBs, received at the facility or transferred to other facilities;
- identification number for the PCB waste (this can be the identification number from the label described in Section 4.2);
- date and quantity of PCBs spilled as a result of a leak or accident and clean-up procedures adopted; and
- dates and details of inspections by Environment Canada, the owner and provincial authorities.

The owner or operator of a disposal facility should maintain records in a manner similar to that for a storage facility with the inclusion of information on:

- the quantity of PCB wastes disposed of and the method(s) used;
- quantities and disposal methods for residues produced; and

- monitoring data appropriate to the particular disposal method(s) used (see Appendices C and D).

Owners of PCB equipment or PCB wastes should retain a record of their inventory for five years after removal or disposal of the last of their PCBs. During that time, the annual inventory reports will confirm the disposal of the PCBs and will enable the provinces and Environment Canada to verify the reduction and eventual exhaustion of the PCB inventory. This recommendation also applies to owners and operators of storage and disposal facilities.

This maintenance of records will parallel the requirements of the Transportation of Dangerous Goods Regulations except that, under the regulations, documents related to transportation are required to be kept for only two years.

APPENDIX C
INSPECTION REPORT FORM

**INSPECTION REPORT
PCB LIQUID WASTE STORAGE SITE**

INSPECTED BY: _____ DATE: _____

SITE NUMBER:

--	--	--	--	--	--	--	--	--

COMPLETE ONLY IF NUMBER EASILY AVAILABLE. NOTE MULTIPLE STORAGE FACILITIES AT A SITE MAY HAVE SEPARATE CONTROL NUMBERS.

OWNER/OPERATOR: _____

ADDRESS: _____

TEL. NO. (____) _____ POSTAL CODE: _____

NAME OF CONTACT PERSON AT SITE: _____

(FOR MINISTRY USE ONLY) LEGAL NAME AND ADDRESS OF SITE OWNER:

_____ POSTAL CODE: _____

1. GENERAL DESCRIPTION OF SITE

	Check
Outdoor storage fenced	_____
Indoor storage unit	_____
Separate Room or building	_____
Indoor storage fenced	_____
International shipping container	_____
Other (describe) _____	_____

2. INDOOR STORAGE (if not indoors go to Section 3)

Is storage site ☐ within plant/building
☐ external to main building

Briefly describe storage area: _____

Are PCB warning signs visible YES NO

Describe _____

Is access to PCB storage securely locked YES NO

Is storage compartment made of: metal, concrete, wood
shipping container, other. Describe: _____

If shipping container, how many? _____

Is storage or shipping container fenced? YES NO

If yes, describe fence in Section 3.

Does ventilation from storage facility exhaust to outside? YES NO

Does ventilation from storage facility exhaust into the
plant? YES NO

No ventilation

Are instructions for operating ventilation system
posted? YES NO

3. OUTDOOR STORAGE

Briefly describe storage site _____

Is storage fenced? YES NO

Condition of fence _____

Is access to the site locked? YES NO

Are PCB warning signs prominently displayed? YES NO

Describe where? _____

Height of fence: _____ m/ft.

No. of gates in fence: _____

Condition of gate: _____

Gate(s) securely locked? YES NO

Describe problem (if any) _____

Is site protected from elements? YES NO

Is there a rain water (snow) runoff catchment pond? YES NO

Is there is a PCB leak holding pond? YES NO

Describe _____

4. PCB CONTAINMENT AREA

DESCRIBE MATERIAL STORED

Check

- PCB liquids (askarel)
- PCB contaminated oils
- PCB contaminated soil, rags, clothing, etc.
- Drained equipment
- Full equipment (transformers, capacitors, etc.)
- Flammable liquids such as gasoline, solvents, etc. (describe) _____

Is there containment? YES NO

Describe containment:

Concrete Metal

Other, describe: _____

If concrete, is surface free of cracks? YES NO

If concrete, is surface coated with sealant? YES NO

Are joints, both to the floor and seams welded or caulked? YES NO

Are equipment or drums in metal trays in containment area? YES NO

If yes, Describe: _____

Describe curbing height: _____ cm/ins.

Is curbing continuous around entire containment area YES NO

Describe, if not continuous _____

(Note: Check doorway for continuity of curbing)

Area of storage floor _____ x _____

Length of sides/diameter, if circular: Sketch and dimensions

(For Office Use) Calculated Containment Volume: _____

In containment area, are there floordrain(s) YES NO

If so, are they blocked? YES NO

Is site neat (i.e. papers, rags or debris on floor)? YES NO

Is there adequate space between drums and equipment to inspect each item? YES NO

If outdoors, is containment area covered? YES NO

Describe: _____

5. PCB STORAGE CONTAINERS

How is PCB wastes packaged: Drums Tanks Equipment Other?

Describe Packaging: _____

Number stored: _____) Describe separately for
Size/volume of each: _____) each waste type in
Question 4, if available

Are drums/containers or equipment stacked?	YES	NO

Describe _____

Do the stacked containers hold liquid? YES NO

Are containers on pallets? YES NO

Are individual containers labelled?	YES	NO

Are containers leaking or deteriorating? YES NO

If yes, describe: _____

Are PCB wastes only stored on site?	YES	NO

Describe other items or materials present in storage area: _____

6. FIRE PROTECTION AND SPILLS PROTECTION

Is site readily accessible to fire fighting vehicles? YES NO

Is fire hydrant located nearby?	YES	NO

Is access to site restricted by owner? YES NO

Has fire department been notified of site?	YES	NO

Is containment area equipped with fire alarms?	YES	NO
--	-----	----

Is area protected with fire and smoke detectors? YES NO

Is area protection system wired to central control? YES NO

Is area equipped with fire extinguishers or extinguishing systems? YES NO

Is audible alarm connected to extinguishing system? YES NO

Are site personnel trained in how to respond to a PCB spill or fire? YES NO

Are these procedures documented? YES NO

Are other combustible materials present? YES NO

Describe	YES	NO
1. Is there a visible water leak?		
2. Is there a visible gas leak?		
3. Is there a visible oil leak?		
4. Is there a visible coolant leak?		
5. Is there a visible brake fluid leak?		
6. Is there a visible power steering fluid leak?		
7. Is there a visible transmission fluid leak?		
8. Is there a visible air conditioning leak?		
9. Is there a visible exhaust leak?		
10. Is there a visible fuel leak?		
11. Is there a visible oil leak?		
12. Is there a visible coolant leak?		
13. Is there a visible brake fluid leak?		
14. Is there a visible power steering fluid leak?		
15. Is there a visible transmission fluid leak?		
16. Is there a visible air conditioning leak?		
17. Is there a visible exhaust leak?		
18. Is there a visible fuel leak?		
19. Is there a visible oil leak?		
20. Is there a visible coolant leak?		
21. Is there a visible brake fluid leak?		
22. Is there a visible power steering fluid leak?		
23. Is there a visible transmission fluid leak?		
24. Is there a visible air conditioning leak?		
25. Is there a visible exhaust leak?		
26. Is there a visible fuel leak?		
27. Is there a visible oil leak?		
28. Is there a visible coolant leak?		
29. Is there a visible brake fluid leak?		
30. Is there a visible power steering fluid leak?		
31. Is there a visible transmission fluid leak?		
32. Is there a visible air conditioning leak?		
33. Is there a visible exhaust leak?		
34. Is there a visible fuel leak?		
35. Is there a visible oil leak?		
36. Is there a visible coolant leak?		
37. Is there a visible brake fluid leak?		
38. Is there a visible power steering fluid leak?		
39. Is there a visible transmission fluid leak?		
40. Is there a visible air conditioning leak?		
41. Is there a visible exhaust leak?		
42. Is there a visible fuel leak?		
43. Is there a visible oil leak?		
44. Is there a visible coolant leak?		
45. Is there a visible brake fluid leak?		
46. Is there a visible power steering fluid leak?		
47. Is there a visible transmission fluid leak?		
48. Is there a visible air conditioning leak?		
49. Is there a visible exhaust leak?		
50. Is there a visible fuel leak?		
51. Is there a visible oil leak?		
52. Is there a visible coolant leak?		
53. Is there a visible brake fluid leak?		
54. Is there a visible power steering fluid leak?		
55. Is there a visible transmission fluid leak?		
56. Is there a visible air conditioning leak?		
57. Is there a visible exhaust leak?		
58. Is there a visible fuel leak?		
59. Is there a visible oil leak?		
60. Is there a visible coolant leak?		
61. Is there a visible brake fluid leak?		
62. Is there a visible power steering fluid leak?		
63. Is there a visible transmission fluid leak?		
64. Is there a visible air conditioning leak?		
65. Is there a visible exhaust leak?		
66. Is there a visible fuel leak?		
67. Is there a visible oil leak?		
68. Is there a visible coolant leak?		
69. Is there a visible brake fluid leak?		
70. Is there a visible power steering fluid leak?		
71. Is there a visible transmission fluid leak?		
72. Is there a visible air conditioning leak?		
73. Is there a visible exhaust leak?		
74. Is there a visible fuel leak?		
75. Is there a visible oil leak?		
76. Is there a visible coolant leak?		
77. Is there a visible brake fluid leak?		
78. Is there a visible power steering fluid leak?		
79. Is there a visible transmission fluid leak?		
80. Is there a visible air conditioning leak?		
81. Is there a visible exhaust leak?		
82. Is there a visible fuel leak?		
83. Is there a visible oil leak?		
84. Is there a visible coolant leak?		
85. Is there a visible brake fluid leak?		
86. Is there a visible power steering fluid leak?		
87. Is there a visible transmission fluid leak?		
88. Is there a visible air conditioning leak?		
89. Is there a visible exhaust leak?		
90. Is there a visible fuel leak?		
91. Is there a visible oil leak?		
92. Is there a visible coolant leak?		
93. Is there a visible brake fluid leak?		
94. Is there a visible power steering fluid leak?		
95. Is there a visible transmission fluid leak?		
96. Is there a visible air conditioning leak?		
97. Is there a visible exhaust leak?		
98. Is there a visible fuel leak?		
99. Is there a visible oil leak?		
100. Is there a visible coolant leak?		

Sorbents available on site or in close proximity?	YES	NO

Personal protective equipment?	YES	NO

(NOTE: This is an opportune time to take photographs, particularly if storage conditions are poor or leaks are obvious.)

7. INSPECTION ROUTINES

Is log maintained of routine inspections? YES NO

When was site last inspected? _____

By whom was site inspected? _____

Is list of authorized inspectors displayed or available? YES NO

Frequency of routine inspections: _____

Are PCB wastes movements in or out logged? YES NO

Describe _____

Are Ministry approvals or authorizations on file? YES NO

8. PERSONNEL TRAINING

Are personnel trained in storage site operation,
inspection and emergency response? YES NO

If yes,

- Is list of trained personnel displayed or available? YES NO

- Is date of last training period listed? YES NO

- Is training manual/operations manual available? YES NO

Comments: _____

9. GENERAL COMMENTS BY INSPECTOR

10. DESCRIBE STORAGE SITE WEAKNESSES, PROBLEMS OR INFRACTIONS THAT WERE REPORTED TO THE MOE DISTRICT OFFICER

If #10 completed, sign here as shown:

Signature of authorized party from storage site: _____

Date Reported to MOE: _____

Inspector's signature: _____

Signature of Inspector: _____

Time inspection completed: _____ (a.m./p.m.)

Final check: Take at least two photos of site before leaving.

APPENDIX D
EVALUATION CRITERIA

APPENDIX D
PCB STORAGE SITE SURVEY
EVALUATION GUIDELINES

Criterion 1 - PCB Site Security - General Site Assessment

Determine whether the site (building, room or outdoor storage) is adequately secured to prevent unauthorized access to the immediate environs.

Review Survey Questions: 1, 2, 3, 4

Review the Inspection Report to determine:

- Is entrance to PCB storage securely locked.
- Is building structure or fence secure and or high enough to make access to the storage area difficult.

Note that security of the fence or building should be assessed differently for each of the PCB material types described in Question 1 on the Inspection Report.

PCB Liquids (askarel) should preferably be stored indoors in a metal or concrete vault or in a fenced compound (this could entail a shipping container or, a storage building separate from the companies' operation, or a vault or fenced compound in the plant itself). If askarel is stored outside, it should have a high fence around it (preferably $\geq 6'$) and the askarel containers should be protected from weather with suspended roof or in a fully sealed tank.

PCB Contaminated Oils should preferably be stored as per askarel. However, it is acceptable for contaminated oil transformers to be stored outside provided:

- the equipment is structurally sound and sealed from the weather;
- the equipment is identified as being PCB contaminated;
- the stored equipment is maintained, monitored, and secured to the same degree as in-service electrical equipment;
- absolute quantities of PCBs are such that there is no potential for significant environmental contamination in the event of a leak; and
- spill pans and other appropriate spill protection equipment and procedures are utilized during the handling or pumping of liquids.

It is acceptable to have contaminated oil filled equipment stored outside for a long period of time in an area that cannot be easily accessed by unauthorized personnel. It is permissible to store it outside, unsecured for a short period of time (while awaiting test results or rearranging already stored equipment), providing the equipment is placed in a drip tray and covered with a tarp to protect it from weather.

PCB Solids and Drained Equipment can be stored indoors or outdoors. They should preferably be located where access to the wastes is controlled. Protection from the weather is not necessary providing the container described in Criteria 3 is sealed.

Criterion 2 - Compatibility of Material Stored

Are PCBs stored separate from flammable materials?

Review inspection report questions 4, 7.

- Review should determine whether askarel is stored separately from contaminated mineral oil. If it is known that they are stored together give a marginal rating.
- No flammable liquids should be stored with PCBs, e.g., solvents like kerosene or fuel oil used to decontaminate equipment.
- Minimal flammable solids should be in the area.
- Wooden pallets are permissible.

Criterion 3 - Integrity of Primary Containment

Determine the soundness of the containers immediately in contact with PCB.

- Review Inspection Report, Questions 4 and 5.
- PCB should be stored in 16-gauge drums preferably, sound original casings or equivalent.
- Containers should not be deteriorating, rusting or leaking.

- All PCB liquids should be stored in sealed containers. This could be a closed head drum (bung type), tank, or in existing equipment. All should be in good condition.
- It is acceptable to store solids in open head or tarped containers. Any solids in containers stored outdoors should be protected from the weather either with a tarp or container lid.

Criterion 4 - Integrity of Secondary Containment

Determine the ability of secondary structures to control the loss of PCB from primary containment.

Review Inspection Report Questions 3, 4, 5, 6

The spill containment area should be made of concrete (preferably coated) or steel. All joints must be welded or caulked.

There should be no drains or openings in the containment area. If there are, they must be blocked or led to a sump where possibly contaminated liquid is collected and tested.

Pumps should not be capable of discharge to the external environment.

- Calculate containment volume from Question 4.

- Estimate quantity of PCB liquid (in litres)
 - 45 gallon drum -> assume 200 litres each
 - transformer -> assume 340 litres if size not known
 - capacitor -> consider as solid waste
 - tank - use tank size if known if not assume 4500 litres

- Estimate how much liquid the containment area will hold:

1 ft.³ holds 6 gallons
 1 m³ = 1000 litres

- The curbing for multi-equipment or container storage should be designed to accommodate twice the liquid content of the largest piece of equipment or container or 25% of the total volume of PCB liquid at the location, whichever is larger. For single-unit storage, accommodation for 125% of the container's volume is acceptable.

- In outdoor storage areas, (other than shipping containers and buildings) the containment area should be large enough to hold rainwater that may be contaminated if a spill of the size above happened during a storm. I would suggest that the containment area should be able to hold an extra 10% of the total fluid volume if it is outside. Another alternative is to have contaminated rainwater collected in a sump as askarel in Question 3.

Criterion 5 - Labelling (Identification)

Would someone coming into a storage site be immediately aware of materials being encountered?

Review Questions 2, 3, 5.

- Are storage site and PCB containers clearly identified as being PCB.
- PCB labels should be placed at a minimum on the door or gate to the facility and on all PCB containers.

Criterion 6 - Acceptability of Site Operations

Does the appearance of the site indicate an attitude of care for the integrity of the storage?

Review Inspection Report Questions, 5, 6.

- Storage sites should be clean and tidy.
- There should be adequate space between rows of containers for a person to walk between. If there is small room to see between them give a marginal rating.

Criterion 7 - Adequacy of Inspections

Is the site inspected frequently enough and are the inspections recorded?

Review Question 9.

- The most important thing here is that the site is inspected a minimum of:
 - once monthly for askarel
 - once every two months for contaminated oil
 - once every three months for solids.
- If no log book of these inspections is maintained, give a marginal rating.

Criterion 8 - Spill Protection

Determine Adequacy of first response materials (sorbents) and existence of emergency planning.

Review Question 8.

- Spill clean-up and protective equipment should be available in or directly adjacent to the storage area (in as close proximity as possible).
- Emergency procedures should be developed and preferably documented. Marginal rating if not documented.

Criterion 9 - Fire Protection

Determine adequacy of first response fire protection measures and level of emergency protection in general.

Review Questions 1, 2, 4, 7.

- Fire protection requirements are related to:
 - what material is stored
 - what are they stored in
 - how remote and fireproof the storage building is
 - inspection

A storage building that is remote from operations, is fireproof and well inspected may not require mechanical fire alarm equipment to the same extent as for a facility in a plant environment. Give a marginal rating to these facilities.

- Storage facilities should have fire alarms and fire extinguishers.
- Ventilation from PCB storage must exhaust to outdoors if present. No ventilation is acceptable.
- Fire department should be notified.
- Fire emergency procedures should be in place as per Criterion 8.

Criteria 10 - Training

Are site personnel acquainted and trained in all aspects of PCB management.

Review Question 10.

- Personnel should be trained and identified.
- Training material should be documented.
- Give a marginal rating if training not documented.

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